

US EPA RECORDS CENTER REGION 5



465709

Report

**Revised Source Area 4
Groundwater Management Zone
2012 Annual Report**

Southeast Rockford Groundwater
Contamination Superfund Site
Rockford, Illinois

Illinois Environmental
Protection Agency

June 24, 2013

**CDM
Smith**

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Section 1

Section 1

Introduction

CDM Smith Inc. (CDM Smith), formerly Camp Dresser and McKee Inc. (CDM), has prepared this Annual Groundwater Management Zone (GMZ) Monitoring Report for the Illinois Environmental Protection Agency (Illinois EPA) to document the controls, management and quality of the groundwater within the GMZ at Source Area 4. Source Area 4 is part of the Southeast Rockford Groundwater Contamination Superfund Site (CERCLIS No. 2010300074), located in Rockford, Winnebago County, Illinois (**Figure 1**).

CDM Smith, under contract to Illinois EPA, has completed the Remedial Design (RD)/ Remedial Action (RA) for the leachate component of Area 4 in accordance with the Operable Unit 3 (OU3) Record of Decision (ROD). The establishment of the GMZ for Area 4 was a requirement of the ROD. The GMZ application prepared by CDM Smith and dated December 4, 2009 was approved by Illinois EPA on December 16, 2010. The GMZ boundaries and monitoring well network are shown on **Figure 2**.

The GMZ monitoring was conducted in accordance with the GMZ application and the Source Area 4 GMZ Monitoring Sampling and Analysis Plan (SAP) prepared by CDM Smith. The GMZ sampling network includes 7 monitoring wells, 3 groundwater extraction wells and one multi-level well with 5 sampling ports for a total of 15 monitoring points. The leachate control system described in Section 1.1 began operation immediately after the baseline sampling event on December 2009 and was followed by quarterly groundwater monitoring for two years. In 2012, the quarterly monitoring was adjusted to semiannual because the treatment system maintained a steady state condition for two years. This report includes information from the two semiannual sampling events during 2012 and discusses long-term changes since the baseline sampling in 2009. The report summarizes the methods and procedures used during the monitoring events, presents the data for the groundwater elevation measurements, and analytical results.

1.1 Leachate Control System Summary

From August through December 2009, the leachate control system components were installed and tested. The system treats groundwater contaminated with chlorinated volatile organic compounds (VOC) including 1,1,1-trichloroethane (TCA), 1,1-dichloroethene (1,1-DCE), trichloroethene (TCE), and tetrachloroethene (PCE). The system began operation in December 2009 and was declared operational and functional on October 6, 2010. Construction of the system is described in *Interim Leachate Component Remedial Action Completion Report, Source Area 4, Southeast Rockford Groundwater Contamination Superfund Site*, dated February 2011.

Leachate is extracted at a rate of approximately 60 gallons per minute (gpm) through a series of three extraction wells (EW001 through EW003), submersible pumps, piping and controls. The treatment train consists of an oil-water separator, air stripper, bag filters, and separate carbon units for the liquid and vapor effluent streams. The liquid effluent is discharged on-site to a storm water ditch and the vapor effluent is discharged to the air. Effluent is monitored monthly for VOCs to confirm the leachate is treated to acceptable levels. The vapor phase carbon unit is currently by-passed because the total VOC contaminant mass entering the system is well below the permit equivalency-required discharge limit of 8 pounds per hour.

After the system had been in operation for a few weeks after start-up, it became apparent that iron-related bacteria (IRB) were degrading system performance. This decrease in system performance was caused by iron fouling of EW3, which extracts the most contaminated groundwater, and iron fouling of the lead liquid phase carbon vessel.

In order to control the formation of iron slime in the system, an anti-scalent and microbicide are injected into extraction well EW3 during warmer months (approximately March to November) and year round into the influent process line as it enters the treatment unit. When the chemicals are not injected into EW3, iron slime forms on the extraction well pump resulting in a gradual pumping rate loss of about 1 gallon per week. However, turning off the pump in extraction well EW1, which extracts the least contaminated water, temporarily increases the pumping rate in EW3. But this increase is temporary and eventually the EW3 pump must be removed and cleaned. During 2012, the pump in EW3 was removed for cleaning during the third week of March.

Other times during the 2012 that the treatment system was not operating for more than 24 hours are listed in **Table 1**.



Section 2

Section 2 Field Activities

CDM Smith performed a baseline groundwater sampling event of all GMZ compliance monitoring network points and groundwater sample collection at some of the GMZ monitoring points on November 10, 2009. This sampling event was conducted prior to the start-up of the leachate control system in order to provide baseline contaminant concentrations for comparison to the semiannual data obtained during system operation. On December 1, 2009, the day before the leachate control system was started, a baseline round of water levels was collected from all five shallow monitoring wells and two of the multi-level well ports. The comparison will allow an evaluation of the effectiveness of the leachate control system as provided in this annual GMZ monitoring report.

Table 2 provides a summary of the 2012 semiannual sampling dates and wells sampled for each event. Wells that were not sampled include the following:

- During the 2012 second semiannual sampling event, EW001 was not sampled because it was turned off to maintain a higher flow rate for EW003.

Because the overall leachate control system is currently in steady state conditions, this missing data point does not impact the ability to evaluate and monitor its effectiveness. All other sampling and analysis was performed in accordance with the SAP and approved GMZ application.

2.1 Groundwater Elevations

Potentiometric surface maps were prepared from the groundwater elevation data collected during the baseline study and the two semiannual events of GMZ monitoring. The groundwater elevation data used to compile these maps for the 2012 sampling events is provided in **Table 3**. The wells available for collection of elevation data include 12 of the GMZ monitoring points, but not the extraction wells. Groundwater elevation data was collected manually at each well prior to purging and sample collection. An electronic water level indicator was used and decontaminated before and after each use.

2.2 Sample Methods

The extraction wells were sampled from the tap on the waterlines that run to the treatment system and each multi-level well port was sampled using the integrated low-flow bladder pump installed as part of the well assembly. The remaining monitoring wells were each purged using a submersible pump and pump controller capable of operating at low-flow purging rates. All wells were purged and sampled in accordance with the SAP. Except for the extraction wells, all wells were purged and sampled using low-flow methodology.

For all wells sampled except the extraction wells and the multi-port well, field measurements of pH, temperature, specific conductance, dissolved oxygen (DO), turbidity, and oxidation-reduction potential (ORP) were monitored to identify the point stabilization was observed during purging. Parameter readings were recorded at five-minute intervals and purging continued until field parameters were observed to be within stable range (as provided below) for three consecutive readings.

- pH, ± 0.25 standard units
- dissolved oxygen, ± 10 percent
- specific conductance, ± 50 umhos/cm
- turbidity, less than 5 NTUs or ± 10 percent
- temperature, $\pm 5^{\circ}\text{C}$
- ORP potential ± 10 mV

For the multi-port well, turbidity readings were not collected because the turbidity in each port typically has a starting value of less than 5 NTUs. In addition, flow rate is not monitored because the greatest flow rate ever observed from any port was 250 milliliters per minute.

Final readings taken prior to sampling are provided in **Table 4** and original data sheets listing all readings recorded during purging are provided in **Appendix A**.

Quality control samples collected for each of the semiannual sampling events included one field duplicate per 10 or fewer investigative samples, one field blank per 10 or fewer investigative samples collected using non-dedicated equipment, one trip blank for each cooler shipped containing aqueous samples for VOC analysis, and one MS/MSD per 20 or fewer samples.

Field instruments were calibrated daily to the appropriate standards in accordance with the SAP. New or dedicated sample tubing was used for each discrete sampling location. The groundwater sample was collected directly from the pump discharge tubing into pre-preserved sample containers provided by a local laboratory.

2.3 Analytical methods

Groundwater samples were analyzed through the U.S. Environmental Protection Agency (U.S. EPA) Contract Laboratory Program (CLP) for low/medium volatile organics under SOM01.2. Analytical results were subsequently validated by U.S. EPA Region 5's Environmental Services Assistance Team ESAT contractor. The Level 4 Validation included a review of holding times; instrument tuning and performance; internal standards; initial and continuing calibration; surrogate recoveries; lab, field, and trip blanks; field duplicates; MS/MSD; lab control samples; and compound identification, quantification, and reported detection limits.

Section 3

Section 3 Results

This section presents the results of the two semiannual sampling events of 2012. The GMZ monitoring wells within, as well as upgradient and downgradient of the GMZ boundaries are used to determine the effectiveness of the extraction wells for containing the groundwater contamination. The samples were collected as specified in the SAP. The monitoring well sample concentrations were compared to the baseline results and the remediation goals established in the ROD.

3.1 Hydraulic Results

Groundwater elevation measurements were collected for the two semiannual GMZ Monitoring events during this third year of the Leachate Control System operation. **Table 3** presents the dates of data collection and the water elevations measured for the baseline and 2012 events. Potentiometric surface maps are presented for the baseline event in **Figure 3** and the two 2012 semiannual events in **Figures 4** and **5**. Groundwater gradients are estimated across the site using elevation data from MW32 as the upgradient location and MW401A as the downgradient location. Under either non-pumping or pumping conditions, the hydraulic gradient is relatively flat and the gradient difference between non-pumping and pumping conditions is minimal.

The first semiannual groundwater elevations were measured in July 2012 after the leachate control system had been operating for twenty-nine months. All three extraction wells were operating and the approximate combined pumping rate was 59 gpm. The groundwater flow direction continued to the northwest with a slight variation in flow direction between the extraction wells and the drainage ditch (**Figure 4**). This indicates that the leachate control system exerts a slight influence on the groundwater levels in the vicinity of the extraction wells, as would be expected. The approximate groundwater gradient calculated from the first semiannual groundwater elevations was approximately 0.002326 ft/ft. This gradient is similar to the average gradient of the first two quarters in 2011.

The second semiannual groundwater elevations were measured in January 2013. Two of the three extraction wells, EW002 and EW003, were operating and pumping with an approximate combined pumping rate of 52 gpm. The groundwater flow direction measured predominantly to the northwest with a slight depression in the vicinity of the multi-level well (**Figure 5**). This indicates that the leachate control system continued to exert a slight influence on the groundwater levels in the vicinity of the extraction wells. The second semiannual groundwater gradient was approximately 0.002087 ft/ft which is slightly less than the average groundwater gradient for the third and fourth quarters in 2011. This is likely due to the differences in precipitation which influence the groundwater levels. According to data from National Weather Service Forecast Office, the total precipitation for the Rockford area during the second half of 2011 was approximately twice the total precipitation for the same time period in 2012.

3.2 Laboratory Analytical Results

The laboratory analytical results were compared to the remediation goals (RG) from the OU3 Record of Decision (ROD) and Groundwater Quality Standards for Class I: Potable Resource Groundwater (IAC 620.410). **Table 5** provides a summary of the VOCs that were detected in at least one sample collected during the baseline or 2012 semiannual monitoring events. Complete analytical results are provided in **Appendix B**. **Table 6** provides a comprehensive list of VOCs that have been detected in each well since the baseline sampling event. In this table, the VOCs listed for each well were detected at least once only in that well since the baseline sampling event.

The GMZ monitoring investigative samples and associated QC samples were analyzed through the USEPA CLP and validated by U.S. EPA Region 5's ESAT contractor. Overall, the validation determined that the data are useable with qualifications. A small percentage of the analytical results were rejected for the first semiannual sampling event; however, an evaluation of the rejected data determined that it does not constitute critical data and the rejected data does not result in any data gaps for this monitoring program. Numerous samples did exceed the calibration range for the initial run and required a second run at a dilution. The impacted parameters are qualified with a "D" indicating that the value reported is from the diluted sample run.

3.2.1 1st Semiannual 2012 VOCs Exceeding RGs

During the first semiannual sampling event of the GMZ monitoring, all the GMZ wells were sampled. TCA was detected over the RG in EW003 and MLW01E. MLW01E also contained 1,1-DCE and PCE that exceeded their RGs (**Table 5**).

3.2.2 2nd Semiannual 2012 VOCs Exceeding RGs

All GMZ wells were also sampled during the second semiannual with the exception of EW001. EW001 was not operating in order to maintain the flow rate in EW003. The only extraction well with detections over the RG was EW3. The compound exceeding RGs for this well for this semiannual event was TCA. TCA and 1,1-DCE were also found over the RG at MLW01E (**Table 5**).



Section 4

Section 4 Conclusions

This report summarizes the information obtained during semiannual monitoring events for year 2012 of GMZ Monitoring at Source Area 4, Southeast Rockford Groundwater Contamination Site.

Groundwater levels were measured for the baseline, 2010 and 2011 quarterly, and 2012 semiannual sampling events. **Table 3** provides a summary of the groundwater elevation measurements for 2012. The leachate extraction system has been operational since December 2009 and after the baseline measurements, the gradient increased across the site due to the pumping of the extraction wells. The pumping rates of the extraction wells have been sufficient to keep the increased gradient fairly steady since then. The groundwater flow direction remained consistent for the two semiannual GMZ monitoring events with only slight variations in the vicinity of the drainage ditch and extraction wells. Additionally it appears that the leachate control system was exerting a small localized influence on the groundwater near MWL01 and the MW401 well nest. It is acknowledged that there is a paucity of monitoring points in this area so the interpretation of the data is based on best judgment. **Table 5** provides a summary of the VOCs that exceeded their RG during 2012 monitoring events.

Extraction well EW003 had detections of contaminants of concern for both semiannual monitoring events. The northern-most well, EW001 had no VOCs over RGs for the first semiannual event and was turned off to maintain the flow rate of EW003 during the 2nd semiannual monitoring event. EW002, which is just south of EW001, had no contaminants exceeding RGs for both semiannual events. In the southern-most extraction well, EW003, TCA exceeded RGs in both semiannual events. Based on the data from the 1st quarter of 2010 through the current monitoring event, the concentration of VOCs at EW001 did not change significantly and none were detected over their RGs. EW002 had TCA RG exceedances in 2010; however, no exceedances have been detected since 2010. The compounds 1,1-DCE and TCE were found over the RG in several groundwater monitoring events at EW003 during the first two years of quarterly monitoring but the concentration of both chemicals were under the RG in both semiannual monitoring events of 2012. EW003 also had TCA above the RG in all sampling events during the three years of monitoring and the concentration was significantly higher than the RG during the first quarter of 2010 and 2011. However the concentration of TCA in EW003 has decreased gradually after three years of leachate treatment system operation.

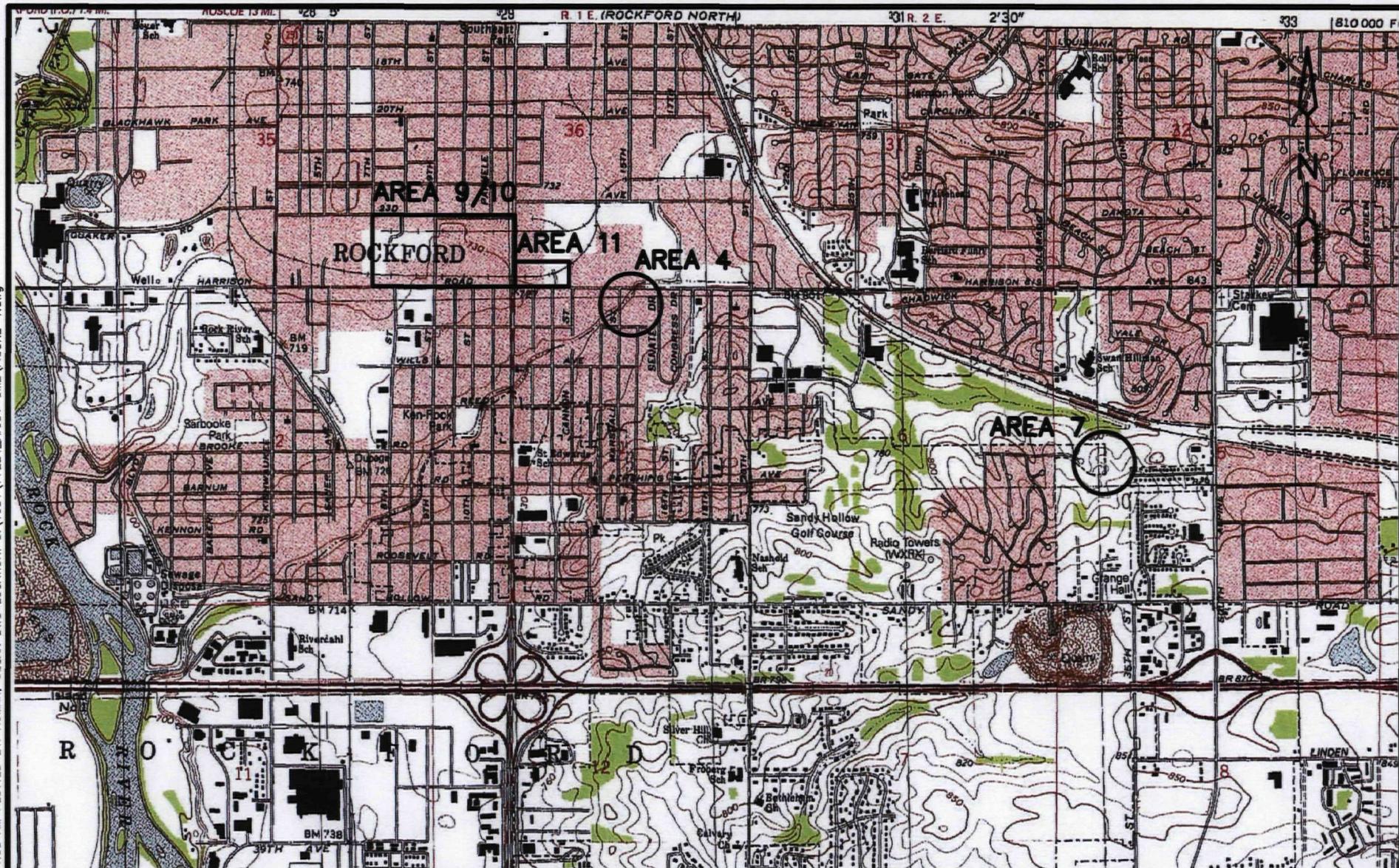
The multi-level well, MLW01, showed low-level VOC concentrations in both semiannual events for the four lower ports but the shallowest port had several VOCs that exceeded RGs for each semiannual monitoring event. The concentration of TCA at MLW01E has increased significantly during the last two semiannually monitoring events. The concentration of TCA detected in the 2nd semiannual monitoring event is twice as high as the concentration detected in the 1st quarter of 2010. The VOC concentrations over the course of the year did not show any significant change for the lower four ports. The majority of exceedances were found at MLW01E since 2010, especially the high concentration of TCA. There is no sign that TCA is decreasing in the shallow port at this well based on the data from the three years of monitoring.

The well nest MW401 A and B which is located just west of EW1 had detections of several VOCs above the RG during the baseline event. Once the system was operational, the concentrations of VOCs decreased significantly and no VOCs were detected above their RGs for any of the quarterly or semiannual monitoring events. The downgradient wells MW22A and B, are considered compliance wells for the GMZ. In both of these wells, no VOCs exceeded their RG and the concentrations either decreased slightly or remained constant from the baseline through both semiannual monitoring events. The other two compliance wells, MW130A and B, had no detections of VOCs that exceeded the RGs for both semiannual events. The only exceedance that MW130B had during the three years of monitoring was TCA in the first quarter of 2010. After that, the concentration has decreased gradually and remained below the RG. TCA and 1,1-DCE were two major contaminants found at MW130A above their RGs from 2010 to the second quarter of 2011; however, both chemicals have decreased gradually over time. After the second quarter of 2011, neither chemical was detected over the RG and the concentrations in these wells did not show any significant changes over the year monitoring period.

The remedy for the leachate component of the Area 4 RA was declared operational and functional (O&F) because contaminant concentrations in groundwater immediately downgradient of the groundwater extraction system have decreased (MW401A and B) and the treatment of contaminated effluent is operating as designed. Also, contaminant concentrations in groundwater further downgradient of the groundwater extraction system have decreased (MW130A and B), which indicates the system has been operating long enough to impact groundwater further downgradient.

Figures

Figures

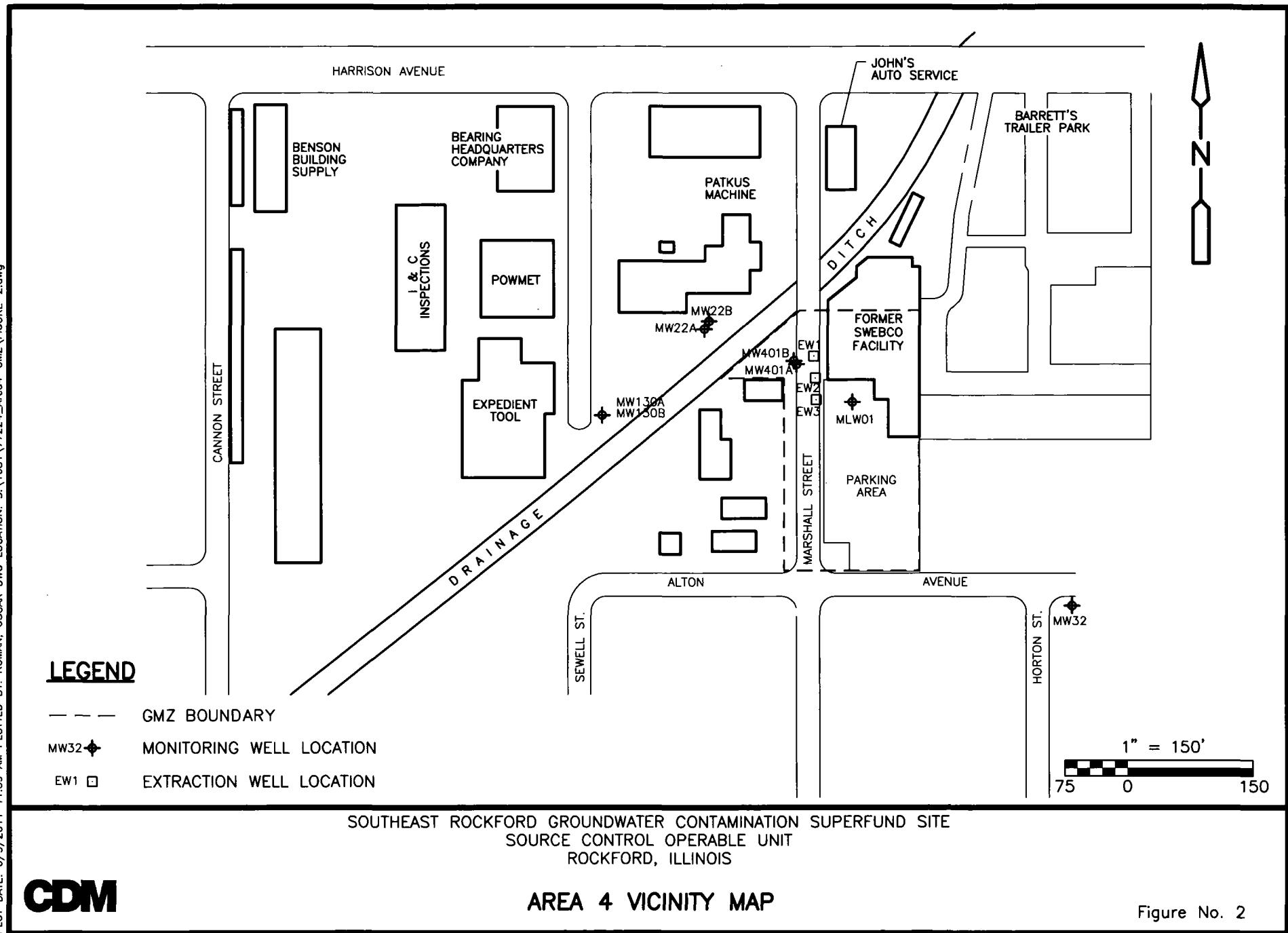


SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE
SOURCE CONTROL OPERABLE UNIT
ROCKFORD, ILLINOIS

AREA MAP

Figure No. 1

CDM





Legend

- Extraction Well
- Monitoring Well Location
- Baseline Groundwater Contour
- GMZ Boundary

Southeast Rockford Groundwater Contamination Superfund Site
Source Control Operable Unit
Rockford, Illinois

Area 4 Baseline Groundwater Potentiometric Surface



0 25 50 100 Feet

Figure No. 3



Legend

- Extraction Well
- Monitoring Well Location
- Baseline Groundwater Contour
- GMZ Boundary

Southeast Rockford Groundwater Contamination Superfund Site
Source Control Operable Unit
Rockford, Illinois

Area 4: 07/25/2012 1st Semiannual
Groundwater Potentiometric Surface



0 25 50 100 Feet

Figure No. 4



Legend

- Extraction Well
- Monitoring Well Location
- Baseline Groundwater Contour
- - - GMZ Boundary

Southeast Rockford Groundwater Contamination Superfund Site
Source Control Operable Unit
Rockford, Illinois

Area 4: 01/15/2013 2nd Semiannual
Groundwater Potentiometric Surface



0 25 50 100 Feet

Figure No. 5

Tables

Tables

Table 1

2012 Treatment System Shutdowns
Source Area 4 GMZ 2012 Annual Report
Southeast Rockford Groundwater Contamination Superfund Site

Dates	Duration	Cause
1/9/12 - 1/10/12	2 days	Backwash lead and lag carbon tanks
3/19/12 - 3/26/12	6 days	Annual system cleaning; remove and clean EW3 pump
5/8/13 - 5/10/13	2.5 days	Backwash and change out carbon tanks
5/26/13 - 5/29/13	2.5 days	System off over the weekend because of water in well valve vault
6/8/13 - 6/11/13	2.5 days	System off over the weekend because of water in well valve vault
7/23/2013 - 7/25/13	2.5 days	System cleaning and carbon backwash
7/30/13 - 7/31/13	1.5 days	Repair leaking fitting and valve on lag carbon tank
9/2/13 - 9/4/13	2 days	System unable to recover from power outage
9/21/13 - 9/25/13	4 days	Fix problem with programmable logic controller
10/1/13 - 10/3/13	2.5 days	Replace battery in well panel uninteruptable power supply; backwash carbon
12/17/13 - 12/18/13	1.5 days	Replace hose from bag filters to lead carbon tank

Table 2

**2012 Semiannual Sampling Dates
Source Area 4 GMZ 2012 Annual Report
Southeast Rockford Groundwater Contamination Superfund Site**

	MW032	MW401A	MW401B	MW022A	MW022B	MW130A	MW130B	EW001	EW002	EW003	MLW01A	MLW01B	MLW01C	MLW01D	MLW01E
1st semiannual	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/26/2012	7/26/2012	7/26/2012	7/26/2012	7/26/2012	7/26/2012	7/26/2012	7/26/2012	7/26/2012	7/26/2012
2nd semiannual	1/15/2013	1/15/2013	1/15/2013	1/15/2013	1/15/2013	1/16/2013	1/16/2013	Not Operating	1/16/2013	1/16/2013	1/15/2013	1/15/2013	1/15/2013	1/15/2013	1/15/2013

Table 3

**2012 Observed Groundwater Elevations
Source Area 4 GMZ 2012 Annual Report
Southeast Rockford Groundwater Contamination Superfund Site**

Well ID	Top of Casing Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)
	Date	12/1/09 - Baseline		07/25/2012 - 1st Semiannual		01/15/2013 - 2nd Semiannual	
MW-22A	730.35	23.60	706.75	26.89	703.46	28.54	701.81
MW-22B	729.75	--	--	26.30	703.45	27.94	701.81
MW-32	733.84	25.60	708.24	29.11	704.73	30.88	702.96
MW-130A	728.04	21.50	706.54	26.10	701.94	26.41	701.63
MW-130B	727.52	--	--	24.36	703.16	25.97	701.55
MW-401A	730.35	23.30	707.05	26.69	703.66	28.35	702.00
MW-401B	730.34	--	--	26.71	703.63	28.36	701.98
MWL01A (69ft)	731.69	--	--	29.55	702.14	30.59	701.10
MWL01B (60ft)	731.69	--	--	29.38	702.31	30.46	701.23
MWL01C (49ft)	731.69	--	--	29.16	702.53	30.20	701.49
MWL01D (41ft)	731.69	--	--	29.01	702.68	30.06	701.63
MWL01E (33.5ft)	731.69	25.12	706.57	28.28	703.41	29.36	702.33

Table 4

2012 Semiannual Stabilized Field Parameter Readings
Source Area 4 GMZ 2012 Annual Report
Southeast Rockford Groundwater Contamination Superfund Site

Final Parameters Readings	Flowrate mL/min	Drawdown Ft.	pH	Specific Cond. mS/Cm	Turbidity NTU	Dissolved Oxygen mg/L	Temp °C	ORP mV	Purged Min.
07/25/2012 - 1st semiannual									
MLW01A	300	--	7.05	1.05	--	1.028	15.1	-43.7	40
MLW01B	--	--	7.13	1.092	--	3.19	15.45	-77.1	30
MLW01C	300	--	7.2	1.072	--	3.58	15.15	-88.9	45
MLW01D	350	--	7.18	1.07	--	3.89	15.96	-56.4	30
MLW01E	300	--	7.2	1.027	--	0.2	16.44	-157.4	30
MW22A	400	0.08	7.12	0.818	9.27	4.53	20.22	35.5	35
MW22B	500	0.07	7.12	1.037	33.8	4.24	20.29	-42.4	30
MW32	400	0.02	7.01	1.08	22.3	2.91	18.4	-6.9	25
MW130A	500	0.61	6.95	1.069	12.7	2.38	16.39	-30.6	35
MW130B	450	0.13	7.12	0.898	4.98	4.16	17.36	-1.2	40
MW401A	600*	0.16	7.1	0.875	25.2	4.15	18.2	27.6	60
MW401B	450	0.17	7.13	1.07	15.4	4.29	16.37	0.9	40
01/15/2013 - 2nd semiannual									
MLW01A	--	--	7.27	0.759	--	1.22	10.4	14.5	30
MLW01B	--	--	7.29	0.753	--	2.98	9.9	11.6	25
MLW01C	--	--	7.29	0.754	--	3.65	9.9	4.1	25
MLW01D	--	--	7.27	0.774	--	3.96	10.2	4.4	25
MLW01E	--	--	7.07	0.64	--	0.42	7.9	-86.9	30
MW22A	300	0	7.13	0.71	10.7	5.65	12.91	102.5	70
MW22B	300	0.03	7.11	0.85	10.2	4.6	13.17	2.4	65
MW32	300	0.01	7.11	0.897	7.1	3.1	13.22	70.7	60
MW130A	400	0.25	6.98	0.93	13.8	2.17	14.59	-54	55
MW130B	400	0.13	7.19	0.899	10.52	4.41	12.87	62.5	45
MW401A	300	0.02	7.15	0.767	10.44	5.78	13.68	4.7	65
MW401B	300	0.03	7.18	0.831	3.01	3.74	12.51	72.8	55

* = Pump issue; flowrate is higher than normal to maintain flow

-- = Not collected

Table 5

Compounds Exceeding Remediation Goals
Souce Area 4 GMZ 2012 Annual Report
Southeast Rockford Groundwater Contamination Superfund Site

EPA Sample ID Station Location Sample Date	E3X98 A4-EW001 7/26/2012	E3X99 A4-EW002 7/26/2012	E3XA0 A4-EW003 7/26/2012	E3XA7 A4-MLW01A 7/26/2012	E3XA6 A4-MLW01B 7/26/2012	E3XA5 A4-MLW01C 7/26/2012	E3XA4 A4-MLW01D 7/26/2012	E3XA3 A4-MW022A 7/26/2012	E3XA8 A4-MW022B 7/25/2012	E3XA9 A4-MW022B-D 7/25/2012	E3XB0 A4-MW032 7/25/2012	E3XB1 A4-MW130A 7/26/2012	E3XB2 A4-MW130B 7/26/2012	E3XB3 A4-MW130B 7/26/2012	E3XB4 A4-MW401A 7/25/2012	E3XB5 A4-MW401B 7/25/2012	E3XB6 A4-MW401B-D 7/25/2012	E3XD9 A4-EW002 1/16/2013
Analyte Name	RG	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	
1,1,1-Trichloroethane	200	14	65	670D	4.3J	5	5	4.8J	920D	13	6	5.8	8.5	53	12	8.5	6.7	
1,1-Dichloroethane	1,400	5.4	7.6	15	4.8J	4.6J	4.9J	4.6J	16	5U	6.9	7	8.8	7.2	6.7	4.8J	7	
1,1-Dichloroethene	7	5U	5U	3.4J	5U	5U	5U	5U	7.4	5U	5U	5U	5U	5U	5U	5U	5U	
Carbon Disulfide	700	5U	5U	5U	0.21J	5U	5U	5U	5U	5U	5U	0.16J	5U	5U	5U	5U	5U	
cis-1,2-Dichloroethene	70	2.4J	2.3J	3.9J	2.1J	1.8J	2.2J	2.2J	14	5U	2.6J	2.8J	3.8J	2.9J	3J	1.9J	3J	
Dibromochloromethane	140*	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.39J	5U	5U	5U	5U	5U	
Dichlorodifluoromethane (Freon 12)	1,400	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	
Ethyl Benzene	700	5U	5U	0.36J	5U	5U	5U	5U	8.4	5U	5U	5U	5U	5U	5U	5U	5U	
Isopropyl Benzene	700	5U	5U	0.28J	5U	5U	5U	5U	9.6	5U	5U	5U	5U	5U	5U	5U	5U	
Methyl Acetate	--	5U	5U	5U	5U	5U	5U	5U	8.2	5U	5U	5U	5U	5U	5U	5U	5U	
Methylcyclohexane	--	5U	5U	5U	5U	5U	5U	5U	0.77J	5U	5U	5U	5U	5U	5U	5U	5U	
Styrene	100	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	
Tetrachloroethene	5	0.51J	0.62J	1.1J	0.3J	5U	0.56J	0.51J	9	5U	5U	0.51J	5U	0.7J	5U	0.57J	5U	
Toluene	1,000	5U	5U	0.31J	5U	5U	5U	5U	1.5J	1.1J	0.92J	0.91J	5U	0.54J	0.86J	0.63J	0.72J	
Trichloroethene	5	1.6J	1.8J	2.9J	1.1J	1.4J	1.4J	1.5J	3J	5U	1.2J	1.3J	4.3J	2.1J	1.5J	1.3J	2.2J	
Trichlorofluoromethane (Freon 11)	2,100	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.71J	0.72J	5U	0.25J	0.54J	0.29J	5U	
Xylene (total)	10,000	5U	5U	1.91J	5U	5U	5U	5U	49	5U	0.28J	5U	5U	5U	0.22J	5U	5U	

Notes:

All results in micrograms per liter

Remediation goals from Record of Decision
or Class I Groundwater Standard from
35 IAC 620.410

* = Remediation goal from TACO (35 IAC 742)

Shaded results exceed remediation goal

D = Diluted sample result

U = Not detected at value shown

J = Estimated result

Table 5

Compounds Exceeding Remediation Goals
Souce Area 4 GMZ 2012 Annual Report
Southeast Rockford Groundwater Contamination Superfund Site

Analyte Name	RG	EPA Sample ID Station Location Sample Date	E3XE0 A4-EW003 1/16/2013	E3XE2 A4-MLW01A 1/15/2013	E3XE3 A4-MLW01B 1/15/2013	E3XE4 A4-MLW01C 1/15/2013	E3XE5 A4-MLW01D 1/15/2013	E3XE6 A4-MLW01E 1/15/2013	E3XE7 A4-MW130A 1/16/2013	E3XE8 A4-MW130B 1/16/2013	E3XE9 A4-MW130B-D 1/16/2013	E3XF0 A4-MW22A 1/16/2013	E3XF1 A4-MW22B 1/15/2013	E3XF2 A4-MW32 1/15/2013	E3XF4 A4-MW401A 1/15/2013	E3XF5 A4-MW401B 1/15/2013
		INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	
1,1,1-Trichloroethane	200	260D	3.9J	4.3J	5.5	5.9	4200D	64	8.1	13	9.3	5.4	9.1	13	7.2	
1,1-Dichloroethane	1,400	13	5.1	4.4J	5.5	5.8	170	8.9	7	11	5U	8	12	3.9J	8.5	
1,1-Dichloroethene	7	5U	5U	5U	5U	5U	25J	5U	5U	5U	5U	5U	5U	5U	5U	
Carbon Disulfide	700	5U	5U	5U	5U	5U	25U	5U	5U	5U	5U	5U	5U	5U	5U	
cis-1,2-Dichloroethene	70	3.1J	5U	5U	2.1J	2.1J	16J	2.3J	2.2J	2.8J	5U	2.2J	3.8J	5U	2.8J	
Dibromochloromethane	140*	5U	5U	5U	5U	5U	25U	5U	5U	5U	5U	5U	5U	5U	5U	
Dichlorodifluoromethane (Freon 12)	1,400	5U	5U	5U	5U	5U	25U	5U	5U	13	5U	5U	5U	5U	5U	
Ethyl Benzene	700	5U	5U	5U	5U	5U	14J	5U	5U	5U	5U	5U	5U	5U	5U	
Isopropyl Benzene	700	5U	5U	5U	5U	5U	25U	5U	5U	5U	5U	5U	5U	5U	5U	
Methyl Acetate	--	5U	5U	5U	5U	5U	50U	5U	5U	5U	5U	5U	5U	5U	5U	
Methylcyclohexane	--	5U	5U	5U	5U	5U	25U	5U	5U	5U	5U	5U	5U	5U	5U	
Styrene	100	5U	5U	5U	5U	5U	25U	5U	5U	5U	5U	5U	5U	5U	5U	
Tetrachloroethene	5	5U	5U	5U	5U	5U	25U	5U	5U	5U	5U	5U	5U	5U	5U	
Toluene	1,000	5U	5U	5U	5U	5U	25U	5U	5U	5U	5U	5U	5U	5U	5U	
Trichloroethene	5	2.1J	2.8J	5U	5U	5U	12J	2J	5U	5U	5U	5U	3.8J	5U	2J	
Trichlorofluoromethane (Freon 11)	2,100	5U	5U	5U	5U	5U	25U	5U	5U	5U	5U	5U	5U	5U	5U	
Xylene (total)	10,000	5U	5U	5U	5U	5U	78	5U	5U	5U	5U	5U	5U	5U	5U	

Notes:

All results in micrograms per liter

Remediation goals from Record of Decision
or Class I Groundwater Standard from
35 IAC 620.410

* = Remediation goal from TACO (35 IAC 742)

Shaded results exceed remediation goal

D = Diluted sample result

U = Not detected at value shown

J = Estimated result

Table 6

Comprehensive Compounds Exceeding Remediation Goals
Souce Area 4 GMZ 2012 Annual Report
Southeast Rockford Groundwater Contamination Superfund Site

EPA Sample ID		E3WP2	E5279	E52L9	E52P7	E52R3	E3X98
Station Location	Date	A4-EW001	A4-EW001	A4-EW001	A4-EW001	A4-EW001	A4-EW001
	2/11/2010		6/14/2010	7/20/2011	10/11/2011	1/11/2012	7/26/2012
Analyte Name	RG						
1,1,1-Trichloroethane	200	34	15	14	8.9	7.9	14
1,1-Dichloroethane	1400	8.9	4.5	5.3	3.2J	4.2J	5.4
1,1-Dichloroethene	7	0.5U	1.3	2J	5U	5U	5U
Benzene	5	0.5U	0.5U	0.41J	5U	5U	5U
cis-1,2-Dichloroethene	70	5.6	2.9	3.2J	5U	2.5J	2.4J
Tetrachloroethene	5	0.49J	0.35J	0.4J	5U	5U	0.51J
Toluene	1000	0.5U	0.5U	5U	3.1J	5.8	5U
trans-1,2-Dichloroethene	100	0.25J	0.5U	5U	5U	5U	5U
trans-1,3-Dichloropropene	-	0.5U	0.5U	5U	5U	5U	5U
Trichloroethene	5	3	1.7	2.1J	5U	1.2J	1.6J
Trichlorofluoromethane (Freon 11)	2100	0.14J	0.5U	5U	5U	5U	

EPA Sample ID		E3WP3	E5280	E52B0	E52F3	E52H5	E52M0	E52P8	E52R4	E3X99	E3XD9
Station Location	Date	A4-EW002	A4-EW002	A4-EW002	A4-EW002	A4-EW002	A4-EW002	A4-EW002	A4-EW002	A4-EW002	A4-EW002
	2/11/2010		6/14/2010	10/7/2010	1/12/2011	4/18/2011	7/19/2011	10/11/2011	1/11/2012	7/26/2012	1/16/2013
Analyte Name	RG										
1,1,1-Trichloroethane	200	2500D	93	2800J	77	39	77	31	26	65	23
1,1-Dichloroethane	1400	14	7.9	15	7.4	7.1	9.1	4.8J	5.9	7.6	6
1,1-Dichloroethene	7	4.7J	2.4J	5U	1.5J	5U	3.1J	5U	5U	5U	5U
1,4-Dichlorobenzene	75	0.5U	0.5U	5U	0.45J	5U	5U	5U	5U	5U	5U
1,4-Dioxane	7.7	NA	NA	8J	100R	100R	100U	100R	100R	100U	
cis-1,2-Dichloroethene	70	5.5J	3.5J	6	3.5J	4.2J	3.2J	5U	2.4J	2.3J	5U
Isopropyl Benzene	700	0.16J	0.22	5U	5U	5U	5U	5U	5U	5U	5U
Tetrachloroethene	5	0.88	0.62	0.82J	0.58J	5U	0.64J	5U	5U	0.62J	5U
trans-1,2-Dichloroethene	100	0.24J	0.2J	5U	0.3J	5U	5U	5U	5U	5U	5U
Trichloroethene	5	3.3	1.8	3.6J	2.7J	2.8J	2.4J	5U	1.4J	1.8J	5U

EPA Sample ID		E3WP4	E5281	E52B1	E52F4	E52H6	E52M1	E52P9	E52R5	E3XA0	E3XE0
Station Location	Date	A4-EW003	A4-EW003	A4-EW003	A4-EW003	A4-EW003	A4-EW003	A4-EW003	A4-EW003	A4-EW003	A4-EW003
	2/11/2010		6/14/2010	10/7/2010	1/12/2011	4/18/2011	7/19/2011	10/11/2011	1/11/2012	7/26/2012	1/16/2013
Analyte Name	RG										
1,1,1-Trichloroethane	200	2400D	910D	1500J	1900D	2500	1200	740	710	670D	2600
1,1,2-Trichloroethane	5	8.6J	1.2	2.1J	1.2J	500U	10U	5U	10U	5U	5U
1,1-Dichloroethane	1400	130	41J	42	35	500U	23	13	22	15	13
1,1-Dichloroethene	7	13U	45J	26	8.7J	81J	27	5U	10U	3.4J	5U
1,4-Dioxane	7.7	NA	NA	7.5J	200R	10000R	200R	100U	200R	100R	100U
cis-1,2-Dichloroethene	70	20	8.8J	8.2	5.9J	500U	4.6J	3J	10U	3.9J	3.1J
Ethyl Benzene	700	13U	0.42J	0.76J	0.77J	500U	0.71J	5U	10U	0.36J	5U
Isopropyl Benzene	700	13U	0.41J	0.67J	0.57J	500U	0.54J	5U	10U	0.28J	5U
Tetrachloroethene	5	3.1J	1.4	2.5J	2.2J	500U	2.1J	5U	2.2J	1.1J	5U
Toluene	1000	13U	0.5U	0.54J	0.72J	500U	0.65J	5U	6.8J	0.31J	5U
trans-1,2-Dichloroethene	100	13U	0.32J	5U	10U	500U	10U	5U	10U	5U	5U
Trichloroethene	5	9.8J	3.3	10	8.5J	500U	6.6J	2.8J	5.4J	2.9J	2.1J
Xylene (Total)	10,000	13U	2.8	4.9J	5.0J	500U	4.4J	5U	4.5J	1.91J	5U

EPA Sample ID		E3WP7	E5284	E52B4	E52F7	E52H9	E52Q2	E52Q8	E3XA7	E3XE2
Station Location	Date	A4-MLW01A	A4-MLW01A	A4-MLW01A	A4-MLW01A	A4-MLW01A	A4-MLW01A	A4-MLW01A	A4-MLW01A	A4-MLW01A
	2/10/2010		6/14/2010	10/7/2010	1/12/2011	4/19/2011	10/11/2011	1/11/2012	7/26/2012	1/15/2013
Analyte Name	RG									
1,1,1-Trichloroethane	200	7.4	4.1	6.5	5.5	6.6	5U	4.5J	4.3J	3.9J
1,1-Dichloroethane	1400	8.6	4.3	6.9	6.7	5.9	3.2J	5.4	4.8J	5.1
1,1-Dichloroethene	7	0.5U	0.7	5U	1.5J	5U	5U	5U	5U	5U
1,4-Dioxane	7.7	NA	NA	12J	100R	100R	100U	100R	100R	100U
Carbon Disulfide	700	0.5U	0.5U	5U	5U	5U	5U	5U	0.21J	5U
cis-1,2-Dichloroethene	70	9.6	2.8	4.5J	3.2J	3.7J	5U	3J	2.1J	5U
Dichlorodifluoromethane (Freon 12)	1400	0.5U	0.5U	5U	5U	2.9J	5U	5U	5U	5U
Tetrachloroethene	5	0.27J	0.5U	5U	0.23J	5U	5U	5U	0.3J	5U
Toluene	1000	0.5U	0.5U	5U	5U	5U	4.7J	5U	5U	5U
trans-1,2-Dichloroethene	100	0.24J	0.5U	5U	5U	5U	5U	5U	5U	5U
Trich										

Table 6

Comprehensive Compounds Exceeding Remediation Goals
Souce Area 4 GMZ 2012 Annual Report
Southeast Rockford Groundwater Contamination Superfund Site

EPA Sample ID		E3WP8	E5285	E5285	E52F8	E52J0	E52Q3	E52Q9	E3XA6	E3XE3
Station Location	A4-MLW01B	A4-MLW01B	A4-MLW01B	A4-MLW01B	A4-MLW01B	A4-MLW01B	A4-MLW01B	A4-MLW01B	A4-MLW01B	A4-MLW01B
Date	2/10/2010	6/14/2010	10/7/2010	1/12/2011	4/19/2011	10/11/2011	1/11/2012	7/26/2012	1/15/2013	
Analyte Name	RG									
1,1,1-Trichloroethane	200	9	5.3	7.6	6.9	8.3	3.1J	3.9J	5	4.3J
1,1-Dichloroethane	1400	8.4	4.1	6.5	4.9J	5.7	3J	3.8J	4.6J	4.4J
1,1-Dichloroethene	7	0.5U	0.95J	5U	1.3J	5U	5U	5U	5U	5U
cis-1,2-Dichloroethene	70	4.5	2.7J	4.7J	3.5J	4.4J	5U	2.1J	1.8J	5U
Tetrachloroethene	5	0.54	0.32J	0.55J	0.54J	5U	5U	5U	5U	5U
Toluene	1000	0.5U	0.5U	5U	5U	5.9	5U	5U	5U	5U
trans-1,2-Dichloroethene	100	0.24J	0.5U	5U	5U	5U	5U	5U	5U	5U
Trichloroethene	5	2.6	1.7	2.8J	2.5J	2.9J	5U	1.3J	1.4J	5U

EPA Sample ID		E3WP9	E5286	E5286	E52F9	E52J1	E52Q4	E52R0	E3XA5	E3XE4
Station Location	A4-MLW01C	A4-MLW01C	A4-MLW01C	A4-MLW01C	A4-MLW01C	A4-MLW01C	A4-MLW01C	A4-MLW01C	A4-MLW01C	A4-MLW01C
Date	2/10/2010	6/15/2010	10/7/2010	1/12/2011	4/19/2011	10/11/2011	1/11/2012	7/26/2012	1/15/2013	
Analyte Name	RG									
1,1,1-Trichloroethane	200	9.2	5.1	7.9	6.8	8.7	2.7J	3J	5	5.5
1,1-Dichloroethane	1400	8.9	4.3	6.6	5J	5.7	2.8J	3.3J	4.9J	5.5
1,1-Dichloroethene	7	0.5U	1J	5U	1.4J	5U	5U	5U	5U	5U
1,4-Dioxane	7.7	NA	NA	8.5J	100R	100R	100U	100R	100R	100U
cis-1,2-Dichloroethene	70	4.6	2.8J	4.7J	3.3J	4.2J	5U	1.7J	2.2J	2.1J
Tetrachloroethene	5	0.5	0.42J	0.57J	0.5J	5U	5U	5U	0.56J	5U
Toluene	1000	0.5U	0.5U	5U	5U	5U	5.4	5U	5U	5U
trans-1,2-Dichloroethene	100	0.28J	0.5U	5U	5U	5U	5U	5U	5U	5U
Trichloroethene	5	2.6	1.7	2.7J	2.6J	2.9J	5U	1.1J	1.4J	5U

EPA Sample ID		E3WQ0	E5287	E52B7	E52G0	E52J2	E52Q5	E52R1	E3XA4	E3XE5
Station Location	A4-MLW01D	A4-MLW01D	A4-MLW01D	A4-MLW01D	A4-MLW01D	A4-MLW01D	A4-MLW01D	A4-MLW01D	A4-MLW01D	A4-MLW01D
Date	2/10/2010	6/15/2010	10/7/2010	1/12/2011	4/19/2011	10/11/2011	1/11/2012	7/26/2012	1/15/2013	
Analyte Name	RG									
1,1,1-Trichloroethane	200	7.9	5.6	8.1	7.5	9	2.8J	2.8J	4.8J	5.9
1,1-Dichloroethane	1400	7.5	4.4	7.3	6	5.3	2.9J	3.1J	4.6J	5.8
1,1-Dichloroethene	7	0.5U	1.2J	5U	5U	5U	5U	5U	5U	5U
1,4-Dioxane	7.7	NA	NA	6.6J	100R	100R	100U	100R	100R	100U
cis-1,2-Dichloroethene	70	3.4	2.8J	5J	4.2J	4.1J	5U	2.2J	2.2J	2.1J
Dichlorodifluoromethane (Freon 12)	1400	0.87	0.5U	5U	5U	5U	5U	5U	5U	5U
Tetrachloroethene	5	0.39J	0.39J	0.55J	0.45J	5U	5U	5U	0.51J	5U
Toluene	1000	0.5U	0.5U	5U	5U	5U	5U	5.5	5U	5U
trans-1,2-Dichloroethene	100	0.25J	0.5U	5U	5U	5U	5U	5U	5U	5U
Trichloroethene	5	2.1	1.6	2.7J	2.7J	2.8J	5U	1.1J	1.5J	5U

EPA Sample ID		E3WQ1	E5288	E52B8	E52G1	E52J3	E52Q6	E52R2	E3XA3	E3XE6
Station Location	A4-MLW01E	A4-MLW01E	A4-MLW01E	A4-MLW01E	A4-MLW01E	A4-MLW01E	A4-MLW01E	A4-MLW01E	A4-MLW01E	A4-MLW01E
Date	2/10/2010	6/15/2010	10/7/2010	1/12/2011	4/19/2011	10/11/2011	1/11/2012	7/26/2012	1/15/2013	
Analyte Name	RG									
1,1,1-Trichloroethane	200	2300D	1800D	840J	1200D	300	180	200	920D	4200D
1,1-Dichloroethane	1400	57	81J	38	36	32	16	25	16	170
1,1-Dichloroethene	7	19J	92J	15	6.8J	5.3J	5U	7.4	25J	
1,2-Dichlorobenzene	600	2.5U	0.49J	0.93J	10U	25U	5U	5U	5U	25U
1,4-Dioxane	7.7	NA	NA	5.3J	200R	500R	100U	100R	100R	500U
2-Butanone	4200	25U	11J	4J	20U	7.8J	10U	10U	10U	50U
Acetone	6300	25U	800U	20U	20U	50U	31	10U	10U	50U
cis-1,2-Dichloroethene	70	20J	33J	15	10	16J	11	28	14	16J
Dichlorodifluoromethane (Freon 12)	1400	5.2	80U	5U	10U	25U	5U	5U	5U	25U
Ethyl Benzene	700	10	9.4	15	11	10J	4.6J	14	8	

Table 6

Comprehensive Compounds Exceeding Remediation Goals
Souce Area 4 GMZ 2012 Annual Report
Southeast Rockford Groundwater Contamination Superfund Site

EPA Sample ID	E3WN4	E3WQ2	E5289	E52B9	E52C0	E52G2	E52G3	E52J6	E52J7	E52M3	E52Q7	E52Q1	E3XA8	E3XF0	
Station Location	A4-MW022A	A4-MW022A	A4-MW022A	A4-MW022A	A4-MW022A-D	A4-MW022A	A4-MW022A-D	A4-MW022A	A4-MW022A-D	A4-MW022A	A4-MW022A	A4-MW022A	A4-MW022A	A4-MW22A	
Date	11/11/2009	2/11/2010	6/14/2010	10/7/2010	10/7/2010	1/13/2011	1/13/2011	4/18/2011	4/18/2011	7/19/2011	10/11/2011	1/10/2012	7/25/2012	1/15/2013	
Analyte Name	RG (ug/L)														
1,1,1-Trichloroethane	RG	99D	47	48	48	48	35	33	33	26	15	20	15	13	9.3
1,1-Dichloroethane	1400	4.6	2.8	1.3	1.4J	1.5J	2.4J	2.1J	1J	0.95J	SU	SU	SU	SU	SU
1,1-Dichloroethene	7	3.3J	0.5U	1	5U	5U	1.5J	1.4J	5U	1.3J	SU	SU	SU	SU	SU
Acetone	6300	10U	SU	5U	10U	10U	20U	20U	20U	20U	24	10U	10U	10U	10U
Chloroethane	-	0.043J	0.5U	0.5U	5U	5U	SU	SU	SU	SU	SU	SU	SU	SU	SU
cis-1,2-Dichloroethene	70	2.3J	1.5	0.77	0.89J	0.85J	1.8J	1.6J	0.7J	0.8J	SU	SU	SU	SU	SU
Tetrachloroethene	5	0.29J	0.23J	0.5U	5U	5U	0.19J	SU	SU	0.62J	SU	SU	SU	SU	SU
Toluene	1000	0.5U	0.5U	0.5U	5U	5U	SU	SU	SU	SU	SU	SU	SU	1.1J	SU
trans-1,2-Dichloroethene	100	0.5U	0.097J	0.5U	5U	5U	SU	SU	SU	SU	SU	SU	SU	SU	SU
Trichloroethene	5	1.6	1.3J	0.73	0.66J	0.66J	SU	SU	0.83J	0.82J	SU	SU	SU	SU	SU

EPA Sample ID	E3WN3	E5290	E52C1	E52G4	E52J8	E52M4	E52QB	E52Q9	E52Q0	E3XA9	E3XB0	E3XF1		
Station Location	A4-MW022B	A4-MW022B	A4-MW022B	A4-MW022B	A4-MW022B	A4-MW022B	A4-MW022B	A4-MW022B	A4-MW022B	A4-MW022B	A4-MW022B	A4-MW022B	A4-MW022B	A4-MW022B
Date	11/11/2009	6/14/2010	10/6/2010	1/13/2011	4/18/2011	7/19/2011	10/11/2011	10/11/2011	1/10/2012	7/25/2012	7/25/2012	1/15/2013		
Analyte Name	RG													
1,1,1-Trichloroethane	200	12J	5	7.7	6.4	6.7	4.4J	2.7J	2.9J	5.1	6	5.8	5.4	
1,1-Dichloroethane	1400	9.9	4	7.6	6.4	5.9	5.4	3.7J	3.8J	6.6	6.9	7	8	
1,1-Dichloroethene	7	0.5U	1	SU	1.5J	1.5J	SU	SU	SU	SU	SU	SU	SU	SU
1,4-Dioxane	7.7	NA	NA	8.9J	100R	100R	100R	100U	100U	100R	100R	100R	100U	
Acetone	6300	SU	SU	20U	20U	20U	24J	20	10U	10U	10U	10U	10U	10U
cis-1,2-Dichloroethene	70	12	3.1	5.4	3.7J	3.6J	2.8J	SU	SU	3.3J	2.6J	2.8J	2.2J	
Dichlорodifluoromethane (Freon 12)	1400	0.5U	0.5U	5.9	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU
Tetrachloroethene	5	0.49J	0.3J	SU	0.31J	0.61J	0.32J	SU	SU	SU	SU	0.51J	SU	
Toluene	1000	0.5U	0.5U	SU	SU	SU	SU	SU	SU	SU	0.92J	0.91J	SU	
Trichloroethene	5	3.7	1.4	2.2J	SU	1.7J	1.2J	SU	SU	1.2J	1.2J	1.3J	SU	
Trichlorofluoromethane (Freon 11)	2100	0.5U	0.5U	SU	0.25J	SU	SU	SU	SU	SU	0.71J	0.72J	SU	
Xylene (Total)	10,000	0.5U	0.5U	SU	SU	0.15J	SU	SU	SU	0.28J	SU	SU		

EPA Sample ID	E3WN5	E3WQ3	E5291	E52C4	E52G5	E52I9	E52M5	E52R0	E52P7	E3XB1	E3XF2	E3XF3		
Station Location	A4-MW032	A4-MW032	A4-MW032	A4-MW032	A4-MW032	A4-MW032	A4-MW032	A4-MW032	A4-MW032	A4-MW032	A4-MW32	A4-MW32	A4-MW32	A4-MW32
Date	11/10/2009	2/10/2010	6/14/2010	10/6/2010	1/12/2011	4/18/2011	7/19/2011	10/11/2011	1/10/2012	7/25/2012	1/15/2013	1/15/2013		
Analyte Name	RG													
1,1,1-Trichloroethane	200	22D	17	11	16	14	15	8.3	7.2	8.4	8.5	9.1	9.1	
1,1-Dichloroethane	1400	18	17	9.3	16	13	12	7.5	6.7	7.8	8.8	12	12	
1,1-Dichloroethene	7	5.1J	1.6	2.6	SU	3.7J	1.7J	SU	SU	SU	SU	SU	SU	
Acetone	6300	SU	SU	20U	20U	20U	20U	22	10U	10U	10U	10U	10U	
Carbon Disulfide	700	0.5U	0.5U	0.5U	SU	SU	SU	SU	SU	0.16J	SU	SU	SU	
Chloroform	70	0.5U	0.21J	SU	SU	SU	SU	SU	SU	SU	SU	SU	SU	
cis-1,2-Dichloroethene	70	36D	8.9	5.9	11	8.7	10	7.3	4.3J	7.1	3.8J	3.8J	3.8J	
Dibromochloromethane	140*	0.5U	0.5U	0.5U	SU	SU	SU	SU	SU	SU	0.39J	SU	SU	
Tetrachloroethene	5	0.7	0.67	0.47J	0.7J	0.75J	1J	0.54J	SU					

Table 6

Comprehensive Compounds Exceeding Remediation Goals
Souce Area 4 GMZ 2012 Annual Report
Southeast Rockford Groundwater Contamination Superfund Site

EPA Sample ID	E3WN7	E3WN8	E3WQ5	E5293	E5294	E52C3	E52G7	E52K2	E52M7	E52R2	E52Q2	E3XB3	E3XE8	E3XE9
	Station Location	A4-MW130B	A4-MW130B-D	A4-MW130B	A4-MW130B	A4-MW130B-D	A4-MW130B	A4-MW130B	A4-MW130B	A4-MW130B	A4-MW130B	A4-MW130B	A4-MW130B	A4-MW130B
Date	11/11/2009	11/11/2009	2/10/2010	6/15/2010	6/15/2010	10/7/2010	1/13/2011	4/18/2011	7/19/2011	10/12/2011	1/11/2012	7/26/2012	1/16/2013	1/16/2013
Analyte Name	RG													
1,1,1-Trichloroethane	200	110D	82D	260D	110	100	110	60	49	20	5U	17	12	8.1
1,1,2-Trichloroethane	5	0.18J	0.16J	0.55	0.27J	0.5U	5U	5U	5U	5U	5U	5U	5U	5U
1,1-Dichloroethane	1400	16	17	19	10	14	11	9.9	6.2	5U	8.1	6.7	7	11
1,1-Dichloroethene	7	3.8	4.4J	6.1J	3J	3.2J	5U	2.5J	2.7J	2.1J	5U	5U	5U	5U
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	12J	100R	11J	100R	100U	100R	100U	100U
Chloromethane	-	0.69	0.5U	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U
cis-1,2-Dichloroethene	70	8.2	8.7J	7.6J	4.7J	4.7J	7.1	4.7J	5.4	3.3J	5U	4J	3J	2.2J
Dichlorodifluoromethane (Freon 12)	1400	9.1	0.5U	0.5U	0.5U	0.5U	0.5U	2.6J	5U	5U	5U	5U	13	5U
Tetrachloroethene	5	0.57	0.63	0.52	0.36J	0.33J	0.53J	0.4J	0.78J	0.41J	5U	5U	5U	5U
Toluene	1000	0.5U	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	6.9	0.86J	5U
trans-1,2-Dichloroethene	100	0.5U	0.4J	0.21J	0.5U	0.5U	5U	0.3J	5U	5U	5U	5U	5U	5U
Trichloroethene	5	3.6	4.1	3.1	1.9	1.8	3.2J	3.1J	3J	1.7J	5U	1.7J	1.5J	5U
Trichlorofluoromethane (Freon 11)	2100	0.5U	0.5UJ	0.17J	0.5U	0.5U	5U	5U	5U	5U	5U	0.54J	5U	5U

EPA Sample ID	E3WN9	E3WQ6	E3WQ7	E5295	E52C5	E52C6	E52G8	E52K3	E52M8	E52M9	E52R3	E52P9	E3XB4	E3XF4	E5296	
Station Location	A4-MW401A	A4-MW401A	A4-MW401A	A4-MW401A	A4-MW401A	A4-MW401A	A4-MW401A	A4-MW401A	A4-MW401A	A4-MW401A	A4-MW401A	A4-MW401A	A4-MW401A	A4-MW401A	A4-MW401A-D	
Date	11/11/2009	2/11/2010	2/11/2010	6/14/2010	10/6/2010	10/6/2010	1/12/2011	4/18/2011	7/19/2011	7/19/2011	10/11/2011	1/10/2012	7/25/2012	1/15/2013	6/14/2010	
Analyte Name	RG															
1,1,1-Trichloroethane	200	320D	8.7	8.9	5.9	9.9	9.9	9.6	10	4.7J	4.7J	3.3J	5.8	8.5	13	5.9
1,1-Dichloroethane	1400	16	7.2	7.5	4.8	8.6	8.4	5U	8.5	5.3	5.4	3.9J	6.1	4.8J	3.9J	5
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	13J	100R	100R	100R	100R	100U	100R	100R	NA	
Chloromethane	-	1.2	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	
cis-1,2-Dichloroethene	70	1.8J	4.8	4.9	3.3	5.9	5.8	5U	5.4	3.4J	3.4J	5U	3.5J	1.9J	5U	3.6J
Dichlorodifluoromethane (Freon 12)	1400	0.5U	0.5U	0.5U	0.5U	0.5U	0.67J	0.62J	5U	5U	5U	5U	5U	5U	0.5U	
Tetrachloroethene	5	0.81	0.22J	0.23J	0.27J	5U	5U	5U	0.54J	0.28J	5U	5U	5U	5U	0.25J	
Toluene	1000	0.5U	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	0.63J	5U	0.5U
trans-1,2-Dichloroethene	100	0.5U	0.18J	0.19J	0.5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	0.5U	
Trichloroethene	5	6.3	2.3	2.3	2	3.1J	3.1J	5U	3.1J	1.7J	1.7J	5U	1.5J	1.3J	5U	1.8
Trichlorofluoromethane (Freon 11)	2100	0.5U	0.13J	0.5U	0.5U	5U	5U	5U	5U	5U	5U	5U	0.29J	5U	0.5U	
Xylene (Total)	10,000	0.5U	0.5U	0.5U	0.5U	0.5U	5U	5U	5U	0.17J	0.27J	5U	0.22J	5U	0.5U	

EPA Sample ID	E3WP0	E3WQ8	E3WQ9	E5297	E52C7	E52G9	E52H0	E52K4	E52N0	E52R4	E52R5	E52P8	E52Q6	E52Q7	E3XB5	E3XB6	E3XF5
Station Location	A4-MW401B	A4-MW401B	A4-MW401B	A4-MW401B	A4-MW401B	A4-MW401B	A4-MW401B	A4-MW401B	A4-MW401B	A4-MW401B	A4-MW401B	A4-MW401B	A4-MW401B	A4-MW401B	A4-MW401B	A4-MW401B	
Date	11/11/2009	2/10/2010	2/10/2010	6/14/2010	10/6/2010	10/6/2010	1/13/2011	4/18/2011	7/19/2011	10/11/2011	1/10/2012	1/10/2012	7/25/2012	7/25/2012	7/25/2012	1/15/2013	
<																	

Appendix A – Groundwater Sampling Sheets

First Semiannual, July 2012

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area

DATE: 7-26-12

TIME: 1020

WEATHER CONDITIONS: 80° farenheight
1020 Start purge

~~WELL #: MLW-01 Port 1 Sample E~~

DEPTH OF PUMP:

SAMPLERS: Jeff Rajcanski, John Grab

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE ML/M	DRAWDOWN FEET (+/- 0.25 FT)	PH (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 °C)	REDOX POTENTIAL mV (+/- 10 mv)
1025			300		7.21	1.025	.15	0.77	15.45	-28.5
1030			300		7.18	1.027	.18	1.03	15.38	-32.1
1035			300		7.17	1.029		1.30	15.50	-28.9
1040			300		7.16	1.030		1.20	15.55	-18.8
1045			300		7.17	1.028		1.34	15.52	-21.8
1050			300		7.18	1.028		1.32	15.55	-38.2
1055			300		7.20	1.027		1.027	15.12	-40.2
1100			300		7.20	1.027		1.028	15.10	-43.7
1105			Sample time							

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area

DATE:

7-26-12

TIME:

105

WEATHER CONDITIONS:

800 fms height, overcast

WELL #:

~~MLW-01 part 1 Sample P~~

DEPTH OF PUMP:

SAMPLERS: JR, JG

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

* malfunctioning, water clear

REV 5/01

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area

DATE: 7/26/12

TIME: 11:35

WEATHER CONDITIONS:

80°F, mostly cloudy, ~~skies~~ ^{green} SAM

WELL #:

M1W01 Part 3 (c)

DEPTH OF PUMP:

SAMPLERS: JR+JG

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

• malfunctioning water filter

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area

DATE: 7/26/12

TIME: 12:06

WEATHER CONDITIONS:

WELL #:

MLW01 - Port 4 (X)

DEPTH OF PUMP:

SAMPLERS: JR & JG

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

* malfunctioning water clear.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area

DATE: 7-26-12

TIME: 1256

WEATHER CONDITIONS: 85° fahrenheit

WELL #: MLW01 Port 5 (#)

DEPTH OF PUMP:

SAMPLERS: JR, JG

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area

DATE:

7/25/12

TIME:

12:55

WEATHER CONDITIONS:

HOT! 95°F, so my body

WELL #:

MW-22A

DEPTH OF PUMP:

SAMPLERS:

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

* Taking turb. every other time until it gets close.. HTS issue

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area

DATE: 7-25-12

TIME: 1355

WEATHER CONDITIONS: 95° farenheight

WELL #:

MW-22B

DEPTH OF PUMP:

SAMPLERS: Jeff Rakowski

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 °C)	REDOX POTENTIAL mV (+/- 10 mv)
Pre Purge	26.33	DTW + 1'								
1355	26.36	500	.03	6.80	0.411	394	0.69	18.19	-44.1	
1400	26.36	500	.03	6.94	0.835	424	2.14	18.89	-56.3	
1405	26.39	500	.06	7.07	0.993	312	3.54	19.23	-58.0	
1410	26.39	500	.06	7.09	1.017	172	4.19	19.87	-47.8	
1415	26.40	500	.07	7.11	1.028	78.4	4.42	20.25	-42.7	
1420	26.40	500	.07	7.11	1.033	49.2	4.41	20.25	-44.2	
1425	26.40	500	.07	7.12	1.037	33.8	4.24	20.29	-42.4	
1430	Sample time									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, AreaDATE: 7-25-12

TIME:

WEATHER CONDITIONS: 85° FahrenheitWELL #: MW-32

DEPTH OF PUMP:

SAMPLERS: Jeff Rakowski

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE ML/M	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm) mS/cm ⁻¹	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 °C)	REDOX POTENTIAL mV (+/- 10 mv)
Pre purge	1+mls	29.11	.0950	Start Purge						
0952		29.12	400	.01	7.03	1.084	186	3.71	18.40	23.9
0957		29.13	400	.02	7.02	1.083	126.5	3.43	18.38	11.7
1002		29.13	400	.02	7.01	1.083	78.2	3.00	18.32	-2.0
1007		29.13	400	.02	7.00	1.082	41.2	2.98	18.27	-1.6
1012		29.13	400	.02	7.00	1.083	29.5	2.91	18.34	-4.6
1017	4 gallons	29.13	400	.02	7.01	1.080	22.3	2.91	18.40	-6.9
1020	Sample time									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, AreaDATE: 7-26-12TIME: 0855WEATHER CONDITIONS: 75° FahrenheitWELL #: MW-130A

DEPTH OF PUMP:

SAMPLERS: Jeff Rakowski

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	ML/M FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 °C)	REDOX POTENTIAL mV (+/- 10 mv)
Pre purge		dtw t/c	2488							
0855	25.49	450	.61	6.90	1.066	227	10.67	14.71	-69.7	
0900	25.49	450	.61	6.83	1.057	198	1.38	15.43	-61.1	
0905	25.49	500	.61	6.87	1.059	143	1.75	15.51	-43.2	
0910	25.49	500	.61	6.89	1.062	97.5	2.00	15.74	-37.5	
0915	25.49	500	.61	6.90	1.064	54.2	2.20	15.98	-22.4	
0920	25.49	500	.61	6.91	1.070	22.9	2.40	16.21	-30.2	
0925	25.49	500	.61	6.93	1.072	15.4	2.44	16.31	-27.2	
0930	25.49	500	.61	6.95	1.069	12.7	2.38	16.39	-30.5	
0935	<u>Sample time</u>									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area

DATE:

7/26/12

TIME:

0850

WEATHER CONDITIONS:

73°F. cloudy, slight breeze

WELL #:

MW - 130D

DEPTH OF PUMP:

SAMPLERS:

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 °C)	REDOX POTENTIAL mV (+/- 10 mv)
0855		24.36	450		7.18	.854	68.7	14.30	15.20	-0.8
0900		24.49		.13	7.13	.860	53.4	4.83	15.40	-8.0
0905		24.49		.13	7.14	.865	44.1	4.44	15.66	-13.7
0910		24.49		.13	7.13	.870	23.6	9.25	15.83	-13.4
0915					7.07	.878	-8.65*	4.16	14.27	3.8
0920					7.13	.888	13.7	4.22	14.46	-1.0
0925					7.11	.895	7.79	4.20	16.97	0.3
0930					7.12	.898	4.98	4.16	17.36	-1.2
0935		SAMPLE								

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

*clearly something is amiss w/ turb. meter. Recalibrate.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, AreaDATE: 7/25/12TIME: 1100WEATHER CONDITIONS: 78° F, mostly sunny, breeze

WELL #:

MW-401A

DEPTH OF PUMP:

SAMPLERS:

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 °C)	REDOX POTENTIAL mV (+/- 10 mV)
1110			450		7.10	.870	263	4.51	17.28	31.0
1120	26.83	600			7.10	.870	263	4.51	17.28	31.0
1125					7.09	.853	241	4.45	17.41	29.6
1130					7.10	.849	180	4.52	17.33	22.9
1135					7.08	.844	265*	4.70	16.59	23.1
1140					7.08	.846	168	4.41	17.39	24.2
1145	26.85				7.09	.847	112	4.36	17.45	24.7
1150					7.07	.851	82.6	4.28	17.55	25.6
1155					7.09	.860	64.0	4.14	17.86	29.8
1200			~		7.09	.873	49.7	4.16	18.19	27.2
1205					7.10	.875	25.2	4.15	18.21	27.6
1210	Sample									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

* pump issues. Higher than normal to maintain flow.

** pump slipped

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area

DATE: 7-25-12

TIME: 1110

WEATHER CONDITIONS: 85° farenheight

WELL #: MW-401B

DEPTH OF PUMP:

SAMPLERS: Jeff Rakowski

ELAPSED TIME (MIN) Pre purge 26.70	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE mL/m	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm) mS/cm²	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1110	450	26.87	450	.17	7.09	1.062	21.2	4.54	15.49	12.9
1115		26.87	450	.17	7.12	1.070	19.2	4.62	15.62	17.2
1120		26.87	450	.17	7.13	1.075	18.0	4.59	15.94	26.0
1125		26.87	450	.17	7.12	1.062	16.2	4.17	16.05	5.2
1130		26.87	450	.17	7.12	1.062	12.9	4.00	16.08	1.6
1135	7 gallons	26.87	450	.17	7.13	1.070	15.4	4.29	16.37	0.9
1140		Sample time								

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Appendix A – Groundwater Sampling Sheets

Second Semiannual, January 2013

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 4

DATE: 1/15/13

WELL #:

TIME: 11:20 AM 11:20

DEPTH OF PUMP:

WEATHER CONDITIONS: Clear, cold n 20F, calm

SAMPLERS: *Circles*

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 4

DATE: 1/15/13

WELL #: MLWS 01B

TIME: 12:20

DEPTH OF PUMP:

WEATHER CONDITIONS: Calm, clear, cold ~ 20°F

SAMPLERS:

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 4

DATE: 1/15/13

WELL #: MLW01C

TIME: 13:00

DEPTH OF PUMP:

WEATHER CONDITIONS: Calm, clear, cold ~25°F

SAMPLERS: *Grob*

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 4

DATE: 1/15/13

TIME: 13:50

WEATHER CONDITIONS: calm, clear, cold w 25F

WELL #: ~~M L W O I D~~ M L W O I D

DEPTH OF PUMP:

SAMPLERS: Gross

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 4DATE: 1/15/13WELL #: MLW01ETIME: 14:30

DEPTH OF PUMP:

WEATHER CONDITIONS:

SAMPLERS:

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 °C)	REDOX POTENTIAL mV (+/- 10 mv)
<u>14:37</u>										
<u>14:45</u>				<u>7.22</u>	<u>.051</u>			<u>16.36</u>	<u>46.77</u>	<u>-82.1</u>
<u>14:50</u>				<u>7.18</u>	<u>.640</u>			<u>1.54</u>	<u>46.85</u>	<u>-86.6</u>
<u>14:55</u>				<u>7.15</u>	<u>.637</u>			<u>1.11</u>	<u>46.52</u>	<u>-84.1</u>
<u>15:00</u>				<u>7.11</u>	<u>.634</u>			<u>.65</u>	<u>46.33</u>	<u>-83.5</u>
<u>15:05</u>				<u>7.07</u>	<u>.635</u>			<u>.48</u>	<u>46.35</u>	<u>-87.4</u>
<u>15:10</u>				<u>7.07</u>	<u>.640</u>			<u>.42</u>	<u>46.28</u>	<u>-86.9</u>
<u>15:15</u>	<u>SAMPLE</u>								<u>7-8°C</u>	

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 mL/min during purging or 250 mL/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

(a)

REV 5/01

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 4DATE: 1/15/13

WELL #:

MW22ATIME: 1400DEPTH OF PUMP: initial DTW 28.54

WEATHER CONDITIONS:

SAMPLERS: Forkel, Wendorf

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 °C)	REDOX POTENTIAL mV (+/- 10 mv)
<u>1350</u> 1400	-	<u>28.54</u>	300	<u>0.00</u>	<u>7.14</u>	<u>0.681</u>	<u>106.2</u>	<u>5.58</u>	<u>9.38</u>	<u>74.6</u>
1415	4500	28.54	300	0.00	7.11	0.698	121	4.43	12.11	67.7
1425	7900	28.54	300	0.00	7.14	0.647	78.8	5.40	8.73	66.8
1435	10,500	28.54	300	0.00	7.13	0.661	51.8	5.78	9.03	78.7
1450	13,500	28.54	300	0.00	7.14	0.710	11.4	5.65	13.58	99.9
1505	16,500	28.54	300	.00	7.13	0.710	10.7	5.65	12.91	1025
1510	3AM/2LS - TM									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 mL/min during purging or 250 mL/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 4

DATE: 1-15-13

WELL #: MW22B

TIME: 1350

DEPTH OF PUMP: initial DTW 27.94

WEATHER CONDITIONS:

SAMPLERS: Forkel, Wendorf

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	PH (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 °C)	REDOX POTENTIAL mV (+/- 10 mv)
1350	-	27.97	300	0.03	6.81	1684	1000	2.57	11.20	0.0
1400	3000	27.97	300	0.03	6.85	0.861	1000	2.68	13.61	-4.7
1415	7500	27.97	300	0.03	6.92	0.868	606	3.67	13.46	-7.0
1425	10,900	27.97	300	0.03	7.05	0.855	97.9	4.33	13.26	-29
1435	13,500	27.97	300	0.03	7.09	0.852	34.3	4.51	13.15	0.7
1445	16,500	27.97	300	0.03	7.11	0.849	10.7	4.99	13.66	8.82
1450	19,450	25.75	300	0.03	7.11	0.850	60.2	4.60	13.17	2.9
1455	9 AM PLDTM									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 mL/min during purging or 250 mL/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 4

DATE: 11/15/13

WELL #: MW 32

TIME: 1015

DEPTH OF PUMP:

30.88 initial BTW

WEATHER CONDITIONS: 20's clear

SAMPLERS: Rachel, Werdorf

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	PH (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 °C)	REDOX POTENTIAL mV (+/- 10 mv)
1015	0	30.89	400 mL/min	.01	7.13	0.806	>1000	4.30	9.23	72.9
1025	2,500	30.89	250 mL/min	0.01	7.14	0.849	145	3.41	11.33	64.7
1035	5,000	30.89	250	0.01	7.13	0.886	63.1	3.27	12.49	58.9
1045	8,000	30.89	300	0.01	7.12	0.893	28.3	3.11	12.82	60.8
1055	11,000	30.89	300	0.01	7.12	0.904	10.22	3.03	13.35	66.3
1105	14,000	30.89	300	.01	7.11	0.896	7.73	3.10	13.13	69.9
1110	15,500	30.89	300	.01	7.11	0.897	7.10	3.10	13.22	70.7
1115		SAMPLE TIME								

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 4

DATE: 1/16/13

WELL #: MW 150 A

TIME: 100 s

~~DEPTH OF PUMP:~~ 26.41 initial DTW (with pump in water)

WEATHER CONDITIONS: Clear, Breezy, 20

SAMPLERS: Forked, Wendorf

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 4

DATE: 1-16-13

WELL #: MW130B

TIME: 0905

~~DEPTH OF PUMP:~~ Original DTW 25-97

WEATHER CONDITIONS: 20's, cloudy

SAMPLERS: Falk, Wren

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 4

DATE: 11/15/13

WELL #:

MW401A

TIME:

DEPTH OF PUMP:

Initial DTW 28-35

WEATHER CONDITIONS:

SAMPLERS:

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 4

DATE: 1/15/13

TIME: 11:50

WEATHER CONDITIONS: Clear, 25° F

WELL #: M1W01B

~~DEPTH OF PUMP:~~ Initial DTW = 28.36

SAMPLERS: M.-Forkel, J.-Wendorff

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: 13 August 2012

FROM: Timothy Prendiville, Supervisor (**SR-6J**)
Superfund Contract Management Section

TO: Data User: CDM Smith
grabsjc@cdm.com

Level 3 Data Validation for EDM EXES Reports

We have reviewed the data for the following case:

SITE Name: SE Rockford GW Contamination Site (IL)

Case Number: 42746 SDG Number: E3X98

Number and Type of Samples: 20 Waters (volatiles)

Sample Numbers: E3X98, E3X99, E3XA0 – E3XA9, E3XB0 – E3XB7

Laboratory: PEL – Spectrum Analytical, Inc Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: **SA-5J**

Case Number: 42746

SDG Number: E3X98

Site Name: SE Rockford GW Contamination Site (IL)

Laboratory: PEL

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twenty (20) preserved water samples labeled E3X98, E3X99, E3XA0 thru E3XA9 and E3XB0 thru E3XB7, were shipped to PEL – Spectrum Analytical, Inc located in Tampa, FL. All samples were collected 7/25/12 and 7/26/12 and received 7/27/12 intact and properly cooled.

All samples were analyzed for the volatile list of compounds. All samples were analyzed according to CLP SOW SOM01.2 (6/2007) and reviewed according to the NFG for SOM01.2 and the SOP for ESAT 5/TechLaw Validation of Contract Laboratory Program Organic Data (Version 2.6.2).

Sample E3XB4 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

Samples E3XA1 and E3XA2 were identified as field blanks and E3XB7 was identified as a trip blank.

Sample E3XB0 was identified as a field duplicate of sample E3XA9. Sample E3XB6 was identified as a field duplicate of sample E3XB5.

Case Number: 42746

SDG Number: E3X98

Site Name: SE Rockford GW Contamination Site (IL)

Laboratory: PEL

1. HOLDING TIME

No Problems Found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No Problems Found.

3. CALIBRATION

The following volatile samples are associated with an initial calibration and continuing CCVs with relative response factors (RRFs) outside criteria. Detected compounds are qualified "J". Non-detected compounds are qualified "R".

E3X98, E3X99, E3XA0, E3XA0DL, E3XA1, E3XA2, E3XA3, E3XA3DL, E3XA4, E3XA5, E3XA6, E3XA7, E3XA8, E3XA9, E3XB0, E3XB1, E3XB2, E3XB3, E3XB4, E3XB4MS, E3XB4MSD, E3XB5, E3XB6, E3XB7, VBLK6K, VBLK6L, VHBLK6H
1,4-Dioxane

The following volatile samples are associated with an initial calibration and continuing CCVs in which a DMC did not meet relative response factor (RRF) criteria. Detected and non-detected compounds are not qualified.

E3X98, E3X99, E3XA0, E3XA0DL, E3XA1, E3XA2, E3XA3, E3XA3DL, E3XA4, E3XA5, E3XA6, E3XA7, E3XA8, E3XA9, E3XB0, E3XB1, E3XB2, E3XB3, E3XB4, E3XB4MS, E3XB4MSD, E3XB5, E3XB6, E3XB7, VBLK6K, VBLK6L, VHBLK6H
1,4-Dioxane-d8

4. BLANKS

The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated method blank has common contaminant analyte concentration less than 2x the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to 2x the CRQL.

Acetone

E3X98, E3X99, E3XA0, E3XA0DL, E3XA1, E3XA2, E3XA3DL, E3XA4, E3XA6, E3XB0, E3XB4, E3XB7, VHBLK6H

Methylene chloride

E3XA3DL, VHBLK6H

Case Number: 42746

SDG Number: E3X98

Site Name: SE Rockford GW Contamination Site (IL)

Laboratory: PEL

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have one or more DMC/SMC recovery values less than the primary lower limit but greater than or equal to the expanded lower limit (20%) of the criteria window. Detected compounds are qualified "J". Non-detected compounds are qualified "UJ".

E3XA0DL, E3XA3DL

1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E3XB4 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

No Problems Found.

6B. LABORATORY CONTROL SAMPLE

Not applicable to volatile analyses.

7. FIELD BLANK AND FIELD DUPLICATE

Samples E3XA1 and E3XA2 were identified as field blanks and E3XB7 was identified as a trip blank. Target compounds were not detected.

Sample E3XB0 was identified as a field duplicate of sample E3XA9. Sample E3XB6 was identified as a field duplicate of sample E3XB5. Results are summarized in the following table:

	E3XA9 µg/L	E3XB0 µg/L	%RPDs	E3XB5 µg/L	E3XB6 µg/L	%RPDs
Volatile analytes:						
Trichlorofluoromethane	0.71	0.72	1.4	---	---	---
1,1-Dichloroethane	6.9	7.0	1.44	7.0	6.4	9.0
cis-1,2-Dichloroethene	2.6	2.8	7.4	3.0	2.9	3.4
1,1,1-Trichloroethane	6.0	5.8	3.4	6.7	6.2	7.8
Trichloroethene	1.2	1.3	8.0	2.2	2.1	4.7
Toluene	0.92	0.91	1.1	0.72	0.69	4.3
Tetrachloroethene	ND	0.51	200	0.57	ND	200
m,p-Xylene	0.28	ND	200	---	---	---
# of VOA TICs	1	1		1	1	

Results are not qualified based upon the results of the field duplicates.

Case Number: 42746

SDG Number: E3X98

Site Name: SE Rockford GW Contamination Site (IL)

Laboratory: PEL

8. INTERNAL STANDARDS

No Problems Found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all volatile compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E3X98, E3X99

cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene

E3XA0

1,1-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Toluene,
Tetrachloroethene, Ethylbenzene, o-Xylene, m,p-Xylene, Isopropylbenzene

E3XA0DL

1,1-Dichloroethane, cis-1,2-Dichloroethene

E3XA3

Trichloroethene, Methylcyclohexane, Toluene

E3XA3DL

1,1-Dichloroethane, Toluene, Ethylbenzene, o-Xylene, m,p-Xylene, Isopropylbenzene

E3XA4

1,1-Dichloroethane, cis-1,2-Dichloroethene, 1,1,1-Trichloroethane, Trichloroethene,
Tetrachloroethene

E3XA5

1,1-Dichloroethane, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene

E3XA6

1,1-Dichloroethane, cis-1,2-Dichloroethene, Trichloroethene

E3XA7

Carbon disulfide, 1,1-Dichloroethane, cis-1,2-Dichloroethene, 1,1,1-Trichloroethane,
Trichloroethene, Tetrachloroethene

Case Number: 42746

SDG Number: E3X98

Site Name: SE Rockford GW Contamination Site (IL)

Laboratory: PEL

E3XA8
Toluene

E3XA9
Trichlorofluoromethane, cis-1,2-Dichloroethene, Trichloroethene, Toluene, m,p-Xylene

E3XB0, E3XB2
Trichlorofluoromethane, cis-1,2-Dichloroethene, Trichloroethene, Toluene,
Tetrachloroethene

E3XB1
Carbon disulfide, cis-1,2-Dichloroethene, Trichloroethene, Dibromochloromethane

E3XB3
Trichlorofluoromethane, cis-1,2-Dichloroethene, Trichloroethene, Toluene

E3XB4
Trichlorofluoromethane, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Trichloroethene,
Toluene, m,p-Xylene

E3XB4MS
Trichlorofluoromethane, m,p-Xylene

E3XB4MSD
cis-1,2-Dichloroethene, Tetrachloroethene, m,p-Xylene

E3XB5
cis-1,2-Dichloroethene, Trichlorethene, Toluene, Tetrachloroethene

E3XB6
cis-1,2-Dichloroethene, Trichlorethene, Toluene

VBLK6K, VBLK6L
Acetone, Methylene chloride

A library search indicates a match below 85% for a TIC compound in the volatile sample.
Detected compounds are qualified "J".

Unknown @ 2.06
E3X99, E3XB1

Unknown @ 11.35; Unknown @ 12.60; Unknown @ 13.18; Unknown @ 13.78
E3XA3

Case Number: 42746

SDG Number: E3X98

Site Name: SE Rockford GW Contamination Site (IL)

Laboratory: PEL

Unknown @ 13.94
E3XA0, E3XA3

A library search indicates a match at or above 85% for a TIC compound in the volatile sample.
Detected compounds are qualified "NJ".

CAS No. 75-68-3 Ethane, 1-chloro-1,1-difluoro-
E3X98, E3X99, E3XA0, E3XA9, E3XB0, E3XB2, E3XB3, E3XB4, E3XB5, E3XB6

CAS No. 95-63-6 1,2,4-Trimethylbenzene
CAS No. 108-67-8 1,3,5-Trimethylbenzene
CAS No. 526-73-8 1,2,3-Trimethylbenzene
CAS No. 535-77-3 Benzene, 1-methyl-3-(1-meth
E3XA0

CAS No. 103-65-1 n-Propylbenzene
CAS No. 119-64-2 1,2,3,4-tetrahydronaphthalene
CAS No. 135-98-8 sec-Butylbenzene
CAS No. 488-23-3 Benzene, 1,2,3,4-tetramethyl-
CAS No. 611-14-3 Benzene, 1-ethyl-2-methyl-
CAS No. 1074-55-1 Benzene, 1-methyl-4-propyl-
CAS No. 1758-88-9 Benzene, 2-ethyl-1,4-dimethyl-
CAS No. 2870-0404 Benzene, 2-ethyl-1,3-dimethyl-
CAS No. 4706-89-2 Benzene, 2,4-dimethyl-1-(1-
E3XA3

CAS No. 108-67-8 1,3,5-Trimethylbenzene
CAS No. 620-14-4 Benzene, 1-ethyl-3-methyl-
E3XA3, E3XA3DL

CAS No. 526-73-8 1,2,3-Trimethylbenzene
E3XA3DL

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

When evaluating TIC compounds, a library search is supposed to be performed. Then, the three closest matches are to be included in the report. The laboratory did not always print the search results for the volatile samples.

Case Number: 42746

SDG Number: E3X98

Site Name: SE Rockford GW Contamination Site (IL)

Laboratory: PEL

The following volatile samples have reported concentrations that exceed the instrument's linear calibration range. The results are flagged "E" by the laboratory and are estimated "J". The results from the diluted samples should be used for result validation.

E3XA0, E3XA3
1,1,1-Trichloroethane

The following volatile samples reported TICs with CAS Nos. even though the percent matches were less than 85% which is compliant with Section XII.E.5 of the Functional Guidelines for Superfund Organic Methods Data Review.

E3X98, E3X99, E3XB0, E3XB2, E3XB3, E3XB4, E3XB5, E3XB6

The following volatile samples have a compound identified by CAS No. in some samples and as an Unknown TIC in other samples. A comparison of the chromatograms demonstrated that the same compound was present in the respective samples. Copies of the chromatograms are included with the validation report.

Unknown @ 1.37 / CAS No. 75-68-3 Ethane, 1-chloro-1,1-difluoro-
E3X98, E3X99, E3XA0, E3XA9, E3XB0, E3XB2, E3XB3, E3XB4, E3XB5, E3XB6

CADRE Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Sample Summary Report

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3X98	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-EW001-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	12:55:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	JB	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.4	ug/L	1.0			Yes	
cis-1,2-Dichloroethene	2.4	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	14	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	1.6	ug/L	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	0.51	ug/L	1.0	J	J	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethane, 1-chloro-1,1-difluoro-1			1.0	NJ		Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3X99	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-EW002-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	13:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	JB	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	7.6	ug/L	1.0			Yes	
cis-1,2-Dichloroethene	2.3	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	65	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	1.8	ug/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	0.62	ug/L	1.0	J	J	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethane, 1-chloro-1,1-difluoro-	1		1.0	NJ		Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XA0	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-EW003-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	13:05:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	3.4	ug/L	1.0	J	J	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	JB	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	15	ug/L	1.0			Yes	
cis-1,2-Dichloroethene	3.9	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	520	ug/L	1.0	E	J	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	2.9	ug/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	0.31	ug/L	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	1.1	ug/L	1.0	J	J	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	0.36	ug/L	1.0	J	J	Yes	
o-Xylene	0.91	ug/L	1.0	J	J	Yes	
m,p-Xylene	1.0	ug/L	1.0	J	J	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	0.28	ug/L	1.0	J	J	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trimethylbenzene_4			1.0	NJ		Yes	
Benzene, 1-methyl-3-(1-meth_5			1.0	NJ		Yes	
1,3,5-Trimethylbenzene_2			1.0	NJ		Yes	
1,2,4-Trimethylbenzene_3			1.0	NJ		Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XA0DL	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-EW003-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	13:05:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	25	ug/L	5.0	U	U	Yes	
Chloromethane	25	ug/L	5.0	U	U	Yes	
Vinyl chloride	25	ug/L	5.0	U	U	Yes	
Bromomethane	25	ug/L	5.0	U	U	Yes	
Chloroethane	25	ug/L	5.0	U	U	Yes	
Trichlorofluorom ethane	25	ug/L	5.0	U	U	Yes	
1,1-Dichloroethene	25	ug/L	5.0	U	UJ	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	25	ug/L	5.0	U	U	Yes	
Acetone	100	ug/L	5.0	DJB	U	Yes	
Carbon disulfide	25	ug/L	5.0	U	U	Yes	
Methyl Acetate	25	ug/L	5.0	U	U	Yes	
Methylene chloride	25	ug/L	5.0	U	U	Yes	
trans-1,2-Dichloroethene	25	ug/L	5.0	U	UJ	Yes	
Methyl tert-butyl ether	25	ug/L	5.0	U	U	Yes	
1,1-Dichloroethane	17	ug/L	5.0	DJ	J	Yes	
cis-1,2-Dichloroethene	3.7	ug/L	5.0	DJ	J	Yes	
2-Butanone	50	ug/L	5.0	U	U	Yes	
Bromochloromethane	25	ug/L	5.0	U	U	Yes	
Chloroform	25	ug/L	5.0	U	U	Yes	
1,1,1-Trichloroethane	670	ug/L	5.0	D		Yes	
Cyclohexane	25	ug/L	5.0	U	U	Yes	
Carbon tetrachloride	25	ug/L	5.0	U	U	Yes	
Benzene	25	ug/L	5.0	U	U	Yes	
1,2-Dichloroethane	25	ug/L	5.0	U	U	Yes	
1,4-Dioxane	500	ug/L	5.0	U	R	Yes	
Trichloroethene	25	ug/L	5.0	U	U	Yes	
Methylcyclohexane	25	ug/L	5.0	U	U	Yes	
1,2-Dichloropropane	25	ug/L	5.0	U	U	Yes	
Bromodichlorom	25	ug/L	5.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	25	ug/L	5.0	U	U	Yes	
cis-1,3-Dichloropropene	25	ug/L	5.0	U	U	Yes	
4-Methyl-2-pentanone	50	ug/L	5.0	U	U	Yes	
Toluene	25	ug/L	5.0	U	U	Yes	
trans-1,3-Dichloropropene	25	ug/L	5.0	U	U	Yes	
1,1,2-Trichloroethane	25	ug/L	5.0	U	U	Yes	
Tetrachloroethene	25	ug/L	5.0	U	U	Yes	
2-Hexanone	50	ug/L	5.0	U	U	Yes	
Dibromochloromethane	25	ug/L	5.0	U	U	Yes	
1,2-Dibromoethane	25	ug/L	5.0	U	U	Yes	
Chlorobenzene	25	ug/L	5.0	U	U	Yes	
Ethylbenzene	25	ug/L	5.0	U	U	Yes	
o-Xylene	25	ug/L	5.0	U	U	Yes	
m,p-Xylene	25	ug/L	5.0	U	U	Yes	
Styrene	25	ug/L	5.0	U	U	Yes	
Bromoform	25	ug/L	5.0	U	U	Yes	
Isopropylbenzene	25	ug/L	5.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	25	ug/L	5.0	U	U	Yes	
1,3-Dichlorobenzene	25	ug/L	5.0	U	U	Yes	
1,4-Dichlorobenzene	25	ug/L	5.0	U	U	Yes	
1,2-Dichlorobenzene	25	ug/L	5.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	25	ug/L	5.0	U	U	Yes	
1,2,4-Trichlorobenzene	25	ug/L	5.0	U	U	Yes	
1,2,3-Trichlorobenzene	25	ug/L	5.0	U	U	Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XA1	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-FB001-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	08:10:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	JB	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XA2	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-FB002-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	08:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	JB	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XA3	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MLW01A-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	13:20:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	7.4	ug/L	1.0			Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	8.2	ug/L	1.0			Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	16	ug/L	1.0			Yes	
cis-1,2-Dichloroethene	14	ug/L	1.0			Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	770	ug/L	1.0	E	J	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	3.0	ug/L	1.0	J	J	Yes	
Methylcyclohexane	0.77	ug/L	1.0	J	J	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	1.5	ug/L	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	9.0	ug/L	1.0			Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	8.4	ug/L	1.0			Yes	
o-Xylene	20	ug/L	1.0			Yes	
m,p-Xylene	29	ug/L	1.0			Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	9.6	ug/L	1.0			Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Benzene, 2-ethyl-1,3-dimethyl_11			1.0	NJ		Yes	
Benzene, 1-ethyl-2-methyl_5			1.0	NJ		Yes	
Benzene, 2-ethyl-1,4-dimethyl_13			1.0	NJ		Yes	
1,3,5-Trimethylbenzene_8			1.0	NJ		Yes	
Benzene, 1-ethyl-3-methyl-			1.0	NJ		Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
_3			1.0	NJ		Yes	
Benzene, 2,4-dimethyl-1-(1-methylpropyl)_15			1.0	NJ		Yes	
Benzene, 1,2,3,4-tetramethylbenzene_14			1.0	NJ		Yes	
1,3,5-Trimethylbenzen e_6			1.0	NJ		Yes	
1,3,5-Trimethylbenzen e_4			1.0	NJ		Yes	
sec-Butylbenzene_7			1.0	NJ		Yes	
Benzene, 1-methyl-4-propyl-10			1.0	NJ		Yes	
n-Propylbenzene_2			1.0	NJ		Yes	
1,2,3,4-tetrahydronaphthalene_18			1.0	NJ		Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XA3DL	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MLW01A-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	13:20:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	100	ug/L	20.0	U	U	Yes	
Chloromethane	100	ug/L	20.0	U	U	Yes	
Vinyl chloride	100	ug/L	20.0	U	U	Yes	
Bromomethane	100	ug/L	20.0	U	U	Yes	
Chloroethane	100	ug/L	20.0	U	U	Yes	
Trichlorofluorom ethane	100	ug/L	20.0	U	U	Yes	
1,1-Dichloroethene	100	ug/L	20.0	U	UJ	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	ug/L	20.0	U	U	Yes	
Acetone	400	ug/L	20.0	DJB	U	Yes	
Carbon disulfide	100	ug/L	20.0	U	U	Yes	
Methyl Acetate	100	ug/L	20.0	U	U	Yes	
Methylene chloride	200	ug/L	20.0	DJB	U	Yes	
trans-1,2-Dichloroethene	100	ug/L	20.0	U	UJ	Yes	
Methyl tert-butyl ether	100	ug/L	20.0	U	U	Yes	
1,1-Dichloroethane	19	ug/L	20.0	DJ	J	Yes	
cis-1,2-Dichloroethene	100	ug/L	20.0	U	UJ	Yes	
2-Butanone	200	ug/L	20.0	U	U	Yes	
Bromochloromethane	100	ug/L	20.0	U	U	Yes	
Chloroform	100	ug/L	20.0	U	U	Yes	
1,1,1-Trichloroethane	920	ug/L	20.0	D		Yes	
Cyclohexane	100	ug/L	20.0	U	U	Yes	
Carbon tetrachloride	100	ug/L	20.0	U	U	Yes	
Benzene	100	ug/L	20.0	U	U	Yes	
1,2-Dichloroethane	100	ug/L	20.0	U	U	Yes	
1,4-Dioxane	2000	ug/L	20.0	U	R	Yes	
Trichloroethene	100	ug/L	20.0	U	U	Yes	
Methylcyclohexane	100	ug/L	20.0	U	U	Yes	
1,2-Dichloropropane	100	ug/L	20.0	U	U	Yes	
Bromodichlorom	100	ug/L	20.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	100	ug/L	20.0	U	U	Yes	
cis-1,3-Dichloropropene	100	ug/L	20.0	U	U	Yes	
4-Methyl-2-pentanone	200	ug/L	20.0	U	U	Yes	
Toluene	2.6	ug/L	20.0	DJ	J	Yes	
trans-1,3-Dichloropropene	100	ug/L	20.0	U	U	Yes	
1,1,2-Trichloroethane	100	ug/L	20.0	U	U	Yes	
Tetrachloroethene	100	ug/L	20.0	U	U	Yes	
2-Hexanone	200	ug/L	20.0	U	U	Yes	
Dibromochloromethane	100	ug/L	20.0	U	U	Yes	
1,2-Dibromoethane	100	ug/L	20.0	U	U	Yes	
Chlorobenzene	100	ug/L	20.0	U	U	Yes	
Ethylbenzene	8.7	ug/L	20.0	DJ	J	Yes	
o-Xylene	14	ug/L	20.0	DJ	J	Yes	
m,p-Xylene	22	ug/L	20.0	DJ	J	Yes	
Styrene	100	ug/L	20.0	U	U	Yes	
Bromoform	100	ug/L	20.0	U	U	Yes	
Isopropylbenzene	6.7	ug/L	20.0	DJ	J	Yes	
1,1,2,2-Tetrachloroethane	100	ug/L	20.0	U	U	Yes	
1,3-Dichlorobenzene	100	ug/L	20.0	U	U	Yes	
1,4-Dichlorobenzene	100	ug/L	20.0	U	U	Yes	
1,2-Dichlorobenzene	100	ug/L	20.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	100	ug/L	20.0	U	U	Yes	
1,2,4-Trichlorobenzene	100	ug/L	20.0	U	U	Yes	
1,2,3-Trichlorobenzene	100	ug/L	20.0	U	U	Yes	
Benzene, 1-ethyl-3-methyl-1			20.0	NJD		Yes	
1,3,5-Trimethylbenzene_2			20.0	NJD		Yes	
1,2,3-Trimethylbenzene_3			20.0	NJD		Yes	
1,2,3-Trimethylbenzene_4			20.0	NJD		Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XA4	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MLW01B-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	12:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	JB	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	4.6	ug/L	1.0	J	J	Yes	
cis-1,2-Dichloroethene	2.2	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	4.8	ug/L	1.0	J	J	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	1.5	ug/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	0.51	ug/L	1.0	J	J	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XA5	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MLW01C-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	12:05:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	4.9	ug/L	1.0	J	J	Yes	
cis-1,2-Dichloroethene	2.2	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	1.4	ug/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	0.56	ug/L	1.0	J	J	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XA6	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MLW01D-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	11:35:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	JB	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	4.6	ug/L	1.0	J	J	Yes	
cis-1,2-Dichloroethene	1.8	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	1.4	ug/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XA7	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MLW01E-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	11:05:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Carbon disulfide	0.21	ug/L	1.0	J	J	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	4.8	ug/L	1.0	J	J	Yes	
cis-1,2-Dichloroethene	2.1	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	4.3	ug/L	1.0	J	J	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	1.1	ug/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	0.30	ug/L	1.0	J	J	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XA8	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW022A-120725	pH:	2.0	Sample Date:	07252012	Sample Time:	14:35:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	13	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	1.1	ug/L	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XA9	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW022B-120725	pH:	2.0	Sample Date:	07252012	Sample Time:	14:30:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	0.71	ug/L	1.0	J	J	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	6.9	ug/L	1.0			Yes	
cis-1,2-Dichloroethene	2.6	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	6.0	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	1.2	ug/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	0.92	ug/L	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	0.28	ug/L	1.0	J	J	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethane, 1-chloro-1,1-difluo_1			1.0	NJ		Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XB0	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW022B-120725-D	pH:	2.0	Sample Date:	07252012	Sample Time:	14:30:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	0.72	ug/L	1.0	J	J	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	JB	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	7.0	ug/L	1.0			Yes	
cis-1,2-Dichloroethene	2.8	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.8	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	1.3	ug/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	0.91	ug/L	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	0.51	ug/L	1.0	J	J	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethane, 1-chloro-1,1-difluoro-1			1.0	NJ		Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XB1	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW032-120725	pH:	2.0	Sample Date:	07252012	Sample Time:	10:20:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Carbon disulfide	0.16	ug/L	1.0	J	J	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	8.8	ug/L	1.0			Yes	
cis-1,2-Dichloroethene	3.8	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	8.5	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	4.3	ug/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	0.39	ug/L	1.0	J	J	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XB2	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW130A-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	09:35:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	0.25	ug/L	1.0	J	J	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	7.2	ug/L	1.0			Yes	
cis-1,2-Dichloroethene	2.9	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	53	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	2.1	ug/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	0.54	ug/L	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	0.70	ug/L	1.0	J	J	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethane, 1-chloro-1,1-difluoro-	1		1.0	NJ		Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XB3	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW130B-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	09:35:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	0.54	ug/L	1.0	J	J	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	6.7	ug/L	1.0			Yes	
cis-1,2-Dichloroethene	3.0	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	12	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	1.5	ug/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	0.86	ug/L	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethane, 1-chloro-1,1-difluoro-1			1.0	NJ		Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XB4	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW401A-120725	pH:	2.0	Sample Date:	07252012	Sample Time:	12:10:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	0.29	ug/L	1.0	J	J	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	JB	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	4.8	ug/L	1.0	J	J	Yes	
cis-1,2-Dichloroethene	1.9	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	8.5	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	1.3	ug/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	0.63	ug/L	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	0.22	ug/L	1.0	J	J	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethane, 1-chloro-1,1-difluoro-1			1.0	NJ		Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XB4MS	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW401A-120725	pH:	2.0	Sample Date:	07252012	Sample Time:	12:10:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	42	ug/L	1.0			Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Benzene	46	ug/L	1.0			Yes	
Trichloroethene	47	ug/L	1.0			Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Toluene	49	ug/L	1.0			Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	45	ug/L	1.0			Yes	
Trichlorofluoromethane	0.33	ug/L	1.0	J	J	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.4	ug/L	1.0			Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	8.8	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	0.26	ug/L	1.0	J	J	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethane, 1-chloro-1,1-difluoro-1			1.0	NJ		Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XB4MSD	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW401A-120725	pH:	2.0	Sample Date:	07252012	Sample Time:	12:10:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1-Dichloroethene	39	ug/L	1.0			Yes	
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Benzene	49	ug/L	1.0			Yes	
Trichloroethene	50	ug/L	1.0			Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Toluene	52	ug/L	1.0			Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	49	ug/L	1.0			Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.3	ug/L	1.0			Yes	
cis-1,2-Dichloroethene	2.3	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	9.1	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	0.49	ug/L	1.0	J	J	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	0.27	ug/L	1.0	J	J	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethane, 1-chloro-1,1-difluoro-1			1.0	NJ		Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XB5	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW401B-120725	pH:	2.0	Sample Date:	07252012	Sample Time:	11:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	7.0	ug/L	1.0			Yes	
cis-1,2-Dichloroethene	3.0	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	6.7	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	2.2	ug/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	0.72	ug/L	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	0.57	ug/L	1.0	J	J	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethane, 1-chloro-1,1-difluoro-1			1.0	NJ		Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XB6	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW401B-120725-D	pH:	2.0	Sample Date:	07252012	Sample Time:	11:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	10	ug/L	1.0	U	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	6.4	ug/L	1.0			Yes	
cis-1,2-Dichloroethene	2.9	ug/L	1.0	J	J	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	6.2	ug/L	1.0			Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	2.1	ug/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	0.69	ug/L	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethane, 1-chloro-1,1-difluoro-1			1.0	NJ		Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	E3XB7	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-TB001-120726	pH:	2.0	Sample Date:	07262012	Sample Time:	08:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	JB	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	VBLK6K	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	1.8	Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	2.1	ug/L	1.0	J	J	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	0.70	ug/L	1.0	J	J	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	VBLK6L	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	1.8	Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	2.5	ug/L	1.0	J	J	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	0.70	ug/L	1.0	J	J	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

Case No:	42746	Contract:	EPW11034	SDG No:	E3X98	Lab Code:	PEL
Sample Number:	VHBLK6H	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	1.8	Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	
Chloromethane	5.0	ug/L	1.0	U	U	Yes	
Vinyl chloride	5.0	ug/L	1.0	U	U	Yes	
Bromomethane	5.0	ug/L	1.0	U	U	Yes	
Chloroethane	5.0	ug/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	
Acetone	20	ug/L	1.0	JB	U	Yes	
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	
Methyl Acetate	5.0	ug/L	1.0	U	U	Yes	
Methylene chloride	10	ug/L	1.0	JB	U	Yes	
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	ug/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Butanone	10	ug/L	1.0	U	U	Yes	
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	
Chloroform	5.0	ug/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	ug/L	1.0	U	U	Yes	
Benzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	
Toluene	5.0	ug/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	
2-Hexanone	10	ug/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	
o-Xylene	5.0	ug/L	1.0	U	U	Yes	
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	
Styrene	5.0	ug/L	1.0	U	U	Yes	
Bromoform	5.0	ug/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: February 5, 2013

FROM: Timothy Prendiville, Supervisor (SR-6J)
Superfund Contract Management Section

TO: Data User: CDM
Email address: grabsjc@cdm.com

Level 3 Data Validation for EXES Database

We have reviewed the data for the following case:

Site Name: Southeast Rockford Groundwater Contamination (IL)

Case Number: 43246 SDG Number: E3XD9

Number and Type of Samples: 18 Waters (Low Volatiles)

Sample Numbers: E3XD9, E3XE0 – E3XE9, E3XF0 – E3XF6

Laboratory: KAP Technologies Hrs for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eighteen (18) preserved water samples labeled E3XD9, E3XE0 thru E3XE9, and E3XF0 thru E3XF6; were collected on January 15 and 16, 2013. The samples were received by KAP Technologies located in The Woodlands, TX on January 17, 2013. All samples were received intact and within the proper shipping temperature range of 2 - 6°.

All samples were analyzed for only the low level volatile target compounds. All samples were analyzed according to CLP SOW SOM01.2 (6/2007) and reviewed according to the NFG for SOM01.2 and the SOP for ESAT 5/TechLaw Validation of Contract Laboratory Program Organic Data (Version 2.6.2).

Sample E3XF5 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

Sample E3XF6 was identified as a trip blank. Sample E3XE1 was identified as a field blank. Sample E3XE9 was identified as a field duplicate of sample E3XE8. Sample E3XF3 was identified as a field duplicate of sample E3XF2.

1. HOLDING TIME

No problems were found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found.

3. CALIBRATION

The following volatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detected 1,2,3-Trichlorobenzene in sample VBLK01 is qualified "J". Non-detected compounds are not qualified.

E3XD9, E3XE0, E3XE0DL, E3XE1, E3XE2, E3XE3, E3XE4, E3XE5, E3XE6, E3XE6DL, E3XE7, E3XE8, E3XE9, E3XF0, E3XF1, E3XF2, E3XF3, E3XF4, E3XF5, E3XF5MS, E3XF5MSD, E3XF6, VBLK01, VBLK03, VBLK05
1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

4. BLANKS

The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated method blank has common contaminant analyte concentration less than 2x the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to 2x the CRQL.

Methylene chloride

E3XD9, E3XE0, E3XE0DL, E3XE1, E3XE2, E3XE6DL, E3XE8, E3XE9, E3XF0, E3XF1, E3XF2, E3XF3, E3XF4, E3XF5, E3XF5MS, E3XF5MSD, E3XF6

The following volatile samples have common contaminant analyte concentrations reported greater than or equal to 2x the CRQL and less than 4X the CRQL. The associated method blank common contaminant analyte concentration is less than 2X the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to 4x the CRQL.

Methylene chloride

E3XE5, E3XE7

The following volatile samples have analyte concentrations greater than or equal to the CRQL. The associated method blank is less than the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to 2x the CRQL.

Methyl acetate
E3XE6

The following volatile samples have TIC concentrations reported less than 5X the associated method blank concentration. Detected compounds are re-qualified "U" and deleted from the TIC report.

Unknown @ 2.71
E3XE1, E3XE3, E3XE5, E3XE6, E3XE7

Unknown @ 2.77
E3XD9, E3XE1, E3XE2, E3XE3, E3XE4, E3XE5, E3XE7, E3XE8, E3XE9,
E3XF0, E3XF4

Unknown @ 9.57
VHBLK01

Unknown @ 10.39
E3XD9, E3XE0, E3XE0DL, E3XE1, E3XE2, E3XE3, E3XE4, E3XE5, E3XE6,
E3XE6DL, E3XE7, E3XE8, E3XE9, E3XF0, E3XF1, E3XF2, E3XF3, E3XF4,
E3XF5, E3XF6

The following volatile samples have analyte concentrations reported less than the CRQL. The associated storage blank concentration is less than the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

Toluene
E3XE6

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. The compounds were not detected in the samples. Non-detected compounds are not qualified.

E3XD9, E3XE0DL, E3XE5, E3XF3
1,4-Dioxane

The following volatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. The compounds were not detected in the samples. Non-detected compounds are qualified "UJ".

E3XE3
1,4-Dioxane, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-chloropropane

E3XE4, E3XE9, E3XF0, E3XF1
1,4-Dioxane

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E3XF5 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

No problems were found.

6B. LABORATORY CONTROL SAMPLE

Not applicable to the low volatile analysis.

7. FIELD BLANK AND FIELD DUPLICATE

Sample E3XF6 was identified as a trip blank. Sample E3XE1 was identified as a field blank. No compounds were detected in these samples.

Sample E3XE9 was identified as a field duplicate of sample E3XE8. Sample E3XF3 was identified as a field duplicate of sample E3XF2. Results are summarized in the following tables:

Sample ID	E3XE8	E3XE9	RPD
DF	1	1	
Units	ug/L	ug/L	
Volatile Analytes			
Dichlorodifluoromethane	13	ND	200
1,1-Dichloroethane	7.0	11	44
cis-1,2-Dichloroethene	2.2	2.8	24
1,1,1-Trichloroethane	8.1	13	46
#VOA TICs	1	1	

Sample ID	E3XF2	E3XF3	RPD
DF	1	1	
Units	ug/L	ug/L	
Volatile Analytes			
1,1-Dichloroethane	12	12	0
cis-1,2-Dichloroethene	3.8	3.8	0
1,1,1-Trichloroethane	9.1	9.1	0
Trichloroethene	3.8	3.8	0
#VOA TICs	0	0	

Results are not qualified based upon the results of the field duplicates.

8. INTERNAL STANDARDS

No problems were found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all low volatile compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have compound concentrations less than the CRQL. Detected compounds are qualified "J".

E3XE0, E3XE7, E3XF2, E3XF3, E3XF5
cis-1,2-Dichloroethene, Trichloroethene

E3XE0DL, E3XE6DL, E3XF4
1,1-Dichloroethane

E3XE2
1,1,1-Trichloroethane, Trichloroethene

E3XE3
1,1-Dichloroethane, 1,1,1-Trichloroethane

E3XE4, E3XE5, E3XE8, E3XE9, E3XF1, E3XF5MS, E3XF5MSD
cis-1,2-Dichloroethene

E3XE6
1,1-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Ethylbenzene

VBLK01
Methyl acetate, Methylene chloride, 1,2,3-Trichlorobenzene

VBLK03, VBLK05
Methylene chloride

VHBLK01
Toluene

A library search indicates a match at or above 85% for a TIC compound in the volatile samples. Detected compounds are qualified "NJ".

Case Number: 43246

SDG Number: E3XD9

Site Name: SE Rockford GW Contamination (IL)

Laboratory: KAP

CAS No. 95-63-6 Benzene, 1,2,4-trimethyl-;
CAS No. 535-77-3 Benzene, 1-methyl-3-(1-methylethyl)-

CAS No. 620-14-4 Benzene, 1-ethyl-3-methyl-;

CAS No. 622-96-8 Benzene, 1-ethyl-4-methyl-;

CAS No. 933-98-2 Benzene, 1-ethyl-2,3-dimethyl-
E3XE6

CAS No. 526-73-8 Benzene, 1,2,3-trimethyl-
E3XE0, E3XE6

CAS No. 611-14-3 Benzene, 1-ethyl-2-methyl-
E3XE0

A library search indicates a match below 85% for a TIC compound in the volatile samples.
Detected compounds are qualified "J".

Unknown @ 2.70
VBLK01

Unknown @ 2.75(1); Unknown @ 2.79(1); Unknown @ 2.83; Unknown @ 2.88;
Unknown @ 14.88; Unknown @ 15.61; Unknown @ 17.46; Unknown @ 17.68;
Unknown @ 17.77
E3XE6

Unknown @ 2.75(2); Unknown @ 2.79(2)
E3XF1

Unknown @ 2.78
E3XE0DL, E3XE6DL, VBLK01, VBLK03

Unknown @ 2.86
E3XE2, E3XE4, E3XE8, E3XE9, E3XF0, VBLK03

Unknown @ 2.96
E3XD9

Unknown @ 9.57
VBLKKA

Unknown @ 10.39
VBLK01, VBLK03, VBLK05

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

Reviewed by: Christina Rice / Techlaw-ESAT
Date: February 25, 2013

12. ADDITIONAL INFORMATION

The following volatile samples have compound concentrations which exceed the instruments calibration range. The detected results are qualified "J". The results from the diluted analyses should be considered the final concentrations for the affected compounds.

E3XE0, E3XE6
1,1,1-Trichloroethane

The following volatile sample had compounds incorrectly listed on the Form I TIC and NFG Report 9. The compounds are considered column bleed and were removed by the reviewer. Chromatograms are included with the hard copy validation package.

CAS No. 556-67-2 Cyclotetrasiloxane, octamethyl- @ 15.43;
Unknown @ 11.31 (m/z 207 – siloxane)
E3XE6

TICs with no CAS Numbers were not reported in the EXES Sample Summary Report for the volatile fraction. Please refer to Word document "43246 SDG E3XD9 TIC Report" for the validated TIC results.

CADRE Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Sample Summary Report

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XD9	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-EW002-130116	pH:	2	Sample Date:	01/16/2013	Sample Time:	08:40:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	6.0	UG/L	1.0			Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	23	UG/L	1.0			Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XE0	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-EW003-130116	pH:	2	Sample Date:	01/16/2013	Sample Time:	08:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	JB	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	13	UG/L	1.0			Yes	
cis-1,2-Dichloroethene	3.1	UG/L	1.0	J	J	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	260	UG/L	1.0	E	J	Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	2.1	UG/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Benzene, 1-ethyl-2-methyl-	7.9	UG/L	1.0	NJ	NJ	Yes	
Benzene, 1,2,3-trimethyl-	8.2	UG/L	1.0	NJ	NJ	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XE0DL	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-EW003-130116	pH:	2	Sample Date:	01/16/2013	Sample Time:	08:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	25	UG/L	5.0	U	U	Yes	
Chloromethane	25	UG/L	5.0	U	U	Yes	
Vinyl chloride	25	UG/L	5.0	U	U	Yes	
Bromomethane	25	UG/L	5.0	U	U	Yes	
Chloroethane	25	UG/L	5.0	U	U	Yes	
Trichlorofluorom ethane	25	UG/L	5.0	U	U	Yes	
1,1-Dichloroethene	25	UG/L	5.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	25	UG/L	5.0	U	U	Yes	
Acetone	50	UG/L	5.0	U	U	Yes	
Carbon disulfide	25	UG/L	5.0	U	U	Yes	
Methyl acetate	25	UG/L	5.0	U	U	Yes	
Methylene chloride	50	UG/L	5.0	DB	U	Yes	
trans-1,2-Dichloroethene	25	UG/L	5.0	U	U	Yes	
Methyl tert-butyl ether	25	UG/L	5.0	U	U	Yes	
1,1-Dichloroethane	14	UG/L	5.0	DJ	J	Yes	
cis-1,2-Dichloroethene	25	UG/L	5.0	U	U	Yes	
2-Butanone	50	UG/L	5.0	U	U	Yes	
Bromochloromethane	25	UG/L	5.0	U	U	Yes	
Chloroform	25	UG/L	5.0	U	U	Yes	
1,1,1-Trichloroethane	260	UG/L	5.0	D		Yes	
Cyclohexane	25	UG/L	5.0	U	U	Yes	
Carbon tetrachloride	25	UG/L	5.0	U	U	Yes	
Benzene	25	UG/L	5.0	U	U	Yes	
1,2-Dichloroethane	25	UG/L	5.0	U	U	Yes	
1,4-Dioxane	500	UG/L	5.0	U	U	Yes	
Trichloroethene	25	UG/L	5.0	U	U	Yes	
Methylcyclohexane	25	UG/L	5.0	U	U	Yes	
1,2-Dichloropropane	25	UG/L	5.0	U	U	Yes	
Bromodichlorom	25	UG/L	5.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	25	UG/L	5.0	U	U	Yes	
cis-1,3-Dichloropropene	25	UG/L	5.0	U	U	Yes	
4-Methyl-2-pentanone	50	UG/L	5.0	U	U	Yes	
Toluene	25	UG/L	5.0	U	U	Yes	
trans-1,3-Dichloropropene	25	UG/L	5.0	U	U	Yes	
1,1,2-Trichloroethane	25	UG/L	5.0	U	U	Yes	
Tetrachloroethene	25	UG/L	5.0	U	U	Yes	
2-Hexanone	50	UG/L	5.0	U	U	Yes	
Dibromochloromethane	25	UG/L	5.0	U	U	Yes	
1,2-Dibromoethane	25	UG/L	5.0	U	U	Yes	
Chlorobenzene	25	UG/L	5.0	U	U	Yes	
Ethylbenzene	25	UG/L	5.0	U	U	Yes	
o-Xylene	25	UG/L	5.0	U	U	Yes	
m,p-Xylene	25	UG/L	5.0	U	U	Yes	
Styrene	25	UG/L	5.0	U	U	Yes	
Bromoform	25	UG/L	5.0	U	U	Yes	
Isopropylbenzene	25	UG/L	5.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	25	UG/L	5.0	U	U	Yes	
1,3-Dichlorobenzene	25	UG/L	5.0	U	U	Yes	
1,4-Dichlorobenzene	25	UG/L	5.0	U	U	Yes	
1,2-Dichlorobenzene	25	UG/L	5.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	25	UG/L	5.0	U	U	Yes	
1,2,4-Trichlorobenzene	25	UG/L	5.0	U	U	Yes	
1,2,3-Trichlorobenzene	25	UG/L	5.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XE1	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-FB01-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	13:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XE2	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MLW01A-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	12:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.1	UG/L	1.0			Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	3.9	UG/L	1.0	J	J	Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	2.8	UG/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XE3	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MLW01B-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	12:55:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	5.0	UG/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	4.4	UG/L	1.0	J	J	Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	4.3	UG/L	1.0	J	J	Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	UJ	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	UJ	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	UJ	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XE4	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MLW01C-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	13:35:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	5.0	UG/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.5	UG/L	1.0			Yes	
cis-1,2-Dichloroethene	2.1	UG/L	1.0	J	J	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.5	UG/L	1.0			Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	UJ	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XE5	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MLW01D-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	14:25:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	20	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.8	UG/L	1.0			Yes	
cis-1,2-Dichloroethene	2.1	UG/L	1.0	J	J	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.9	UG/L	1.0			Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XE6	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MLW01E-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	15:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	25	UG/L	5.0	U	U	Yes	
Chloromethane	25	UG/L	5.0	U	U	Yes	
Vinyl chloride	25	UG/L	5.0	U	U	Yes	
Bromomethane	25	UG/L	5.0	U	U	Yes	
Chloroethane	25	UG/L	5.0	U	U	Yes	
Trichlorofluorom ethane	25	UG/L	5.0	U	U	Yes	
1,1-Dichloroethene	25	UG/L	5.0	J	J	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	25	UG/L	5.0	U	U	Yes	
Acetone	50	UG/L	5.0	U	U	Yes	
Carbon disulfide	25	UG/L	5.0	U	U	Yes	
Methyl acetate	50	UG/L	5.0	B	U	Yes	
Methylene chloride	50	UG/L	5.0	U	U	Yes	
trans-1,2-Dichloroethene	25	UG/L	5.0	U	U	Yes	
Methyl tert-butyl ether	25	UG/L	5.0	U	U	Yes	
1,1-Dichloroethane	170	UG/L	5.0			Yes	
cis-1,2-Dichloroethene	16	UG/L	5.0	J	J	Yes	
2-Butanone	50	UG/L	5.0	U	U	Yes	
Bromochloromethane	25	UG/L	5.0	U	U	Yes	
Chloroform	25	UG/L	5.0	U	U	Yes	
1,1,1-Trichloroethane	4500	UG/L	5.0	E	J	Yes	
Cyclohexane	25	UG/L	5.0	U	U	Yes	
Carbon tetrachloride	25	UG/L	5.0	U	U	Yes	
Benzene	25	UG/L	5.0	U	U	Yes	
1,2-Dichloroethane	25	UG/L	5.0	U	U	Yes	
1,4-Dioxane	500	UG/L	5.0	U	U	Yes	
Trichloroethene	12	UG/L	5.0	J	J	Yes	
Methylcyclohexane	25	UG/L	5.0	U	U	Yes	
1,2-Dichloropropane	25	UG/L	5.0	U	U	Yes	
Bromodichlorom	25	UG/L	5.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	25	UG/L	5.0	U	U	Yes	
cis-1,3-Dichloropropene	25	UG/L	5.0	U	U	Yes	
4-Methyl-2-pentanone	50	UG/L	5.0	U	U	Yes	
Toluene	25	UG/L	5.0	J	U	Yes	
trans-1,3-Dichloropropene	25	UG/L	5.0	U	U	Yes	
1,1,2-Trichloroethane	25	UG/L	5.0	U	U	Yes	
Tetrachloroethene	25	UG/L	5.0	U	U	Yes	
2-Hexanone	50	UG/L	5.0	U	U	Yes	
Dibromochloromethane	25	UG/L	5.0	U	U	Yes	
1,2-Dibromoethane	25	UG/L	5.0	U	U	Yes	
Chlorobenzene	25	UG/L	5.0	U	U	Yes	
Ethylbenzene	14	UG/L	5.0	J	J	Yes	
o-Xylene	32	UG/L	5.0			Yes	
m,p-Xylene	46	UG/L	5.0			Yes	
Styrene	25	UG/L	5.0	U	U	Yes	
Bromoform	25	UG/L	5.0	U	U	Yes	
Isopropylbenzene	25	UG/L	5.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	25	UG/L	5.0	U	U	Yes	
1,3-Dichlorobenzene	25	UG/L	5.0	U	U	Yes	
1,4-Dichlorobenzene	25	UG/L	5.0	U	U	Yes	
1,2-Dichlorobenzene	25	UG/L	5.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	25	UG/L	5.0	U	U	Yes	
1,2,4-Trichlorobenzene	25	UG/L	5.0	U	U	Yes	
1,2,3-Trichlorobenzene	25	UG/L	5.0	U	U	Yes	
Benzene, 1,2,3-trimethyl-	82	UG/L	5.0	NJ	NJ	Yes	
Benzene, 1-ethyl-3-methyl-	140	UG/L	5.0	NJ	NJ	Yes	
Benzene, 1-ethyl-2,3-dimethyl-	15	UG/L	5.0	NJ	NJ	Yes	
Cyclotetrasiloxane, octamethyl-			5.0	NJ		No	
Benzene, 1,2,4-trimethyl-	270	UG/L	5.0	NJ	NJ	Yes	
Benzene, 1-ethyl-4-methyl-	62	UG/L	5.0	NJ	NJ	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzene, 1-methyl-3-(1-methylethyl)-	20	UG/L	5.0	NJ	NJ	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XE6DL	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MLW01E-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	15:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	200	UG/L	40.0	U	U	Yes	
Chloromethane	200	UG/L	40.0	U	U	Yes	
Vinyl chloride	200	UG/L	40.0	U	U	Yes	
Bromomethane	200	UG/L	40.0	U	U	Yes	
Chloroethane	200	UG/L	40.0	U	U	Yes	
Trichlorofluorom ethane	200	UG/L	40.0	U	U	Yes	
1,1-Dichloroethene	200	UG/L	40.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	200	UG/L	40.0	U	U	Yes	
Acetone	400	UG/L	40.0	U	U	Yes	
Carbon disulfide	200	UG/L	40.0	U	U	Yes	
Methyl acetate	200	UG/L	40.0	U	U	Yes	
Methylene chloride	400	UG/L	40.0	DB	U	Yes	
trans-1,2-Dichloroethene	200	UG/L	40.0	U	U	Yes	
Methyl tert-butyl ether	200	UG/L	40.0	U	U	Yes	
1,1-Dichloroethane	160	UG/L	40.0	DJ	J	Yes	
cis-1,2-Dichloroethene	200	UG/L	40.0	U	U	Yes	
2-Butanone	400	UG/L	40.0	U	U	Yes	
Bromochloromethane	200	UG/L	40.0	U	U	Yes	
Chloroform	200	UG/L	40.0	U	U	Yes	
1,1,1-Trichloroethane	4200	UG/L	40.0	D		Yes	
Cyclohexane	200	UG/L	40.0	U	U	Yes	
Carbon tetrachloride	200	UG/L	40.0	U	U	Yes	
Benzene	200	UG/L	40.0	U	U	Yes	
1,2-Dichloroethane	200	UG/L	40.0	U	U	Yes	
1,4-Dioxane	4000	UG/L	40.0	U	U	Yes	
Trichloroethene	200	UG/L	40.0	U	U	Yes	
Methylcyclohexane	200	UG/L	40.0	U	U	Yes	
1,2-Dichloropropane	200	UG/L	40.0	U	U	Yes	
Bromodichlorom	200	UG/L	40.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	200	UG/L	40.0	U	U	Yes	
cis-1,3-Dichloropropene	200	UG/L	40.0	U	U	Yes	
4-Methyl-2-pentanone	400	UG/L	40.0	U	U	Yes	
Toluene	200	UG/L	40.0	U	U	Yes	
trans-1,3-Dichloropropene	200	UG/L	40.0	U	U	Yes	
1,1,2-Trichloroethane	200	UG/L	40.0	U	U	Yes	
Tetrachloroethene	200	UG/L	40.0	U	U	Yes	
2-Hexanone	400	UG/L	40.0	U	U	Yes	
Dibromochloromethane	200	UG/L	40.0	U	U	Yes	
1,2-Dibromoethane	200	UG/L	40.0	U	U	Yes	
Chlorobenzene	200	UG/L	40.0	U	U	Yes	
Ethylbenzene	200	UG/L	40.0	U	U	Yes	
o-Xylene	200	UG/L	40.0	U	U	Yes	
m,p-Xylene	200	UG/L	40.0	U	U	Yes	
Styrene	200	UG/L	40.0	U	U	Yes	
Bromoform	200	UG/L	40.0	U	U	Yes	
Isopropylbenzene	200	UG/L	40.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	200	UG/L	40.0	U	U	Yes	
1,3-Dichlorobenzene	200	UG/L	40.0	U	U	Yes	
1,4-Dichlorobenzene	200	UG/L	40.0	U	U	Yes	
1,2-Dichlorobenzene	200	UG/L	40.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	200	UG/L	40.0	U	U	Yes	
1,2,4-Trichlorobenzene	200	UG/L	40.0	U	U	Yes	
1,2,3-Trichlorobenzene	200	UG/L	40.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XE7	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW130A-130116	pH:	2	Sample Date:	01/16/2013	Sample Time:	11:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	20	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	8.9	UG/L	1.0			Yes	
cis-1,2-Dichloroethene	2.3	UG/L	1.0	J	J	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	64	UG/L	1.0			Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	2.0	UG/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XE8	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW130B-130116	pH:	2	Sample Date:	01/16/2013	Sample Time:	09:50:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	13	UG/L	1.0			Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	7.0	UG/L	1.0			Yes	
cis-1,2-Dichloroethene	2.2	UG/L	1.0	J	J	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	8.1	UG/L	1.0			Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XE9	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW130B-130116-D	pH:	2	Sample Date:	01/16/2013	Sample Time:	09:50:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	11	UG/L	1.0			Yes	
cis-1,2-Dichloroethene	2.8	UG/L	1.0	J	J	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	13	UG/L	1.0			Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	UJ	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XF0	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW22A-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	15:10:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	9.3	UG/L	1.0			Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	UJ	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XF1	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW22B-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	14:55:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	8.0	UG/L	1.0			Yes	
cis-1,2-Dichloroethene	2.2	UG/L	1.0	J	J	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.4	UG/L	1.0			Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	UJ	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XF2	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW32-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	11:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	12	UG/L	1.0			Yes	
cis-1,2-Dichloroethene	3.8	UG/L	1.0	J	J	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	9.1	UG/L	1.0			Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	3.8	UG/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XF3	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW32-130115-D	pH:	2	Sample Date:	01/15/2013	Sample Time:	11:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	12	UG/L	1.0			Yes	
cis-1,2-Dichloroethene	3.8	UG/L	1.0	J	J	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	9.1	UG/L	1.0			Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	3.8	UG/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XF4	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW401A-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	13:05:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	JB	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	3.9	UG/L	1.0	J	J	Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	13	UG/L	1.0			Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XF5	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW401B-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	JB	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	8.5	UG/L	1.0			Yes	
cis-1,2-Dichloroethene	2.8	UG/L	1.0	J	J	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	7.2	UG/L	1.0			Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	2.0	UG/L	1.0	J	J	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XF5MS	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW401B-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,1-Dichloroethene	38	UG/L	1.0			Yes	
Dichlorodifluoromethane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Benzene	40	UG/L	1.0			Yes	
Trichloroethene	43	UG/L	1.0			Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Toluene	46	UG/L	1.0			Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	50	UG/L	1.0			Yes	
Trichlorofluoromethane	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	JB	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	9.8	UG/L	1.0			Yes	
cis-1,2-Dichloroethene	3.0	UG/L	1.0	J	J	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	7.9	UG/L	1.0			Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XF5MSD	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-MW401B-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	39	UG/L	1.0			Yes	
Benzene	38	UG/L	1.0			Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Trichloroethene	42	UG/L	1.0			Yes	
Toluene	45	UG/L	1.0			Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	48	UG/L	1.0			Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluoromethane	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	JB	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	7.9	UG/L	1.0			Yes	
cis-1,2-Dichloroethene	2.5	UG/L	1.0	J	J	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	6.5	UG/L	1.0			Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	E3XF6	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	A4-TB01-130115	pH:	2	Sample Date:	01/15/2013	Sample Time:	12:10:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	VBLK01	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	2.7	UG/L	1.0	J	J	Yes	
Methylene chloride	2.7	UG/L	1.0	J	J	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	2.1	UG/L	1.0	J	J	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	VBLK03	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	3.1	UG/L	1.0	J	J	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	VBLK05	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	4.2	UG/L	1.0	J	J	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	VBLKKA	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	5.0	UG/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43246	Contract:	EPW11031	SDG No:	E3XD9	Lab Code:	KAP
Sample Number:	VHBLK01	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	5.0	UG/L	1.0	U	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	1.7	UG/L	1.0	J	J	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

